2311 Models 1, 11, and 12 Disk Storage Drive

Parts Catalog

2311 Models 1, 11, and 12 Disk Storage Drive

PREFACE

This Illustrated Parts Catalog (IPC) contains listings and illustrations of all replaceable assemblies, subassemblies and detail parts released to Production Control on or before March 21, 1967 for the 2311 Models 1, 11, and 12 Disk Storage Drive.

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A form is provided at the back of this publication for reader's comments. If the form has been removed, comments may be sent to the above address.

2311

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GROUP ASSEMBLY PARTS LIST 1 through	63
NUMERICAL INDEX	Q

GLOSSARY

AR

As Required (AR) in the units per assembly column denotes that the quantity is used as required.

*ASTERISK

An asterisk in the left margin of the list indicates a part changed in the latest revision of the catalog.

INDENTURE

The relationship of a part to its next higher assembly is indicated by indenture. For example:

1 2 3 4

Unit

- . Assemblies and Detail Parts of Unit
- . . Subassemblies
- . . Detail Parts for Subassemblies, etc.

I LOZENGE

The lozenge in the description column indicates parts not recommended for field replacement.

NP

The entry NP in the Units Per Asm column denotes the part is non-procurable and that the next higher assembly should be ordered.

NO NO.

When this indication appears in the part number column, it denotes a group of parts for which no part number has been assigned.

REF

This entry in the units per assembly column denotes an assembly which is completely assembled on a preceding illustration. Quantities for such items are found in its next higher assembly.

SIMILAR ASSEMBLIES

If two assemblics contain a majority of identical parts, they are broken down on the same list. Common parts arc shown by one index number. Parts peculiar to one or the other of the assemblies are listed separately and identified by Usable On Code.

USABLE ON CODE

Part application and interchangeability is indicated by the usable on code. If this column is blank, the parts pertain to all equipment(s) covered. Two types of codes are used. The alphabetic code denotes similar assemblies and/or features: the numeric code denotes level. Refer to the beginning of each list for the explanation of the code(s).

VISUAL INDEX

This index is a pictorial index to catalog figures. The visual index directs the user to the proper figure, assisting him in locating the part number.

IPC ORGANIZATION

To find parts quickly, you should understand the structure of a parts catalog. First, the complete machine is drawn with major assemblies and subassemblies in place (Visual Index Section). Then the machine is "disassembled" into drawings of assemblies and subassemblies (Group Assembly Parts List "GAPL" Section). Thus, the sequence of figures in the catalog is the reverse of the manufacturing assembly sequence. This means that parts are not grouped according to machine functions.

One result of structuring a catalog in this manner is that some parts — filters, brackets, belts, spring clips — may not be where you would "logically" expect to find them in a catalog. Because of the assembly sequence, you may find these kinds of parts on a higher-level assembly. This is an important point and is why every GAPL List is cross-referenced to any higher-level or lower-level figures.

Some detailed parts are unavailable, either because they are part of an inseparable assembly (two parts welded together), or because they are part of an assembly purchased as a unit. In either case, you will need to obtain the assembly rather than the detailed part. Here again, you need to locate the part number of the next higher assembly.

Catalog Sections

A parts catalog has three sections:

- 1. Visual Index -- At front of catalog; shows major assemblies
- 2. GAPL -- A pictorial breakdown of assemblies and subassemblies
- 3. Numerical Index -- At back of catalog; lists all part numbers numerically

Visual Index

The Visual Index is the starting point for locating a part. Illustrations in the visual index show overall views of the machine and its major assemblies. Callouts on the illustrations lead you to detailed figures in the GAPL Section.

Group Assembly Parts List (GAPL)

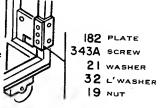
The GAPL Section consists of related Figures and Lists. The GAPL Figures break down the assemblies and subassemblies into detailed parts. The GAPL Lists describe the parts and give part numbers. Each Figure in the GAPL Section is referenced from the Visual Index Section. The relation of assemblies to subassemblies is indicated by indention.

Numerical Index

The Numerical Index at the back of the catalog lists all parts in numeric order. Each part number is cross-referenced to related Lists and Figures in the GAPL Section. The Numerical Index permits you to locate and identify a part when only the part number is known.

Stacked Index Numbers

Index numbers are stacked only to indicate a part and its attaching hardware. The sequence of a typical stack is shown at right.



HOW TO FIND A PART

Steps 1 through 8 in the flow chart take you through the route for finding most parts. Because some parts may not be on the first GAPL Figure, you may be required to go to a lower-level or higherlevel GAPL Figure to find a part.

Lower-Level Assembly

If the first GAPL Figure shows an assembly containing the required part, a figure reference in the GAPL List will indicate the proper, lower-level GAPL Figure. You should find your part in the breakdown of the assembly.

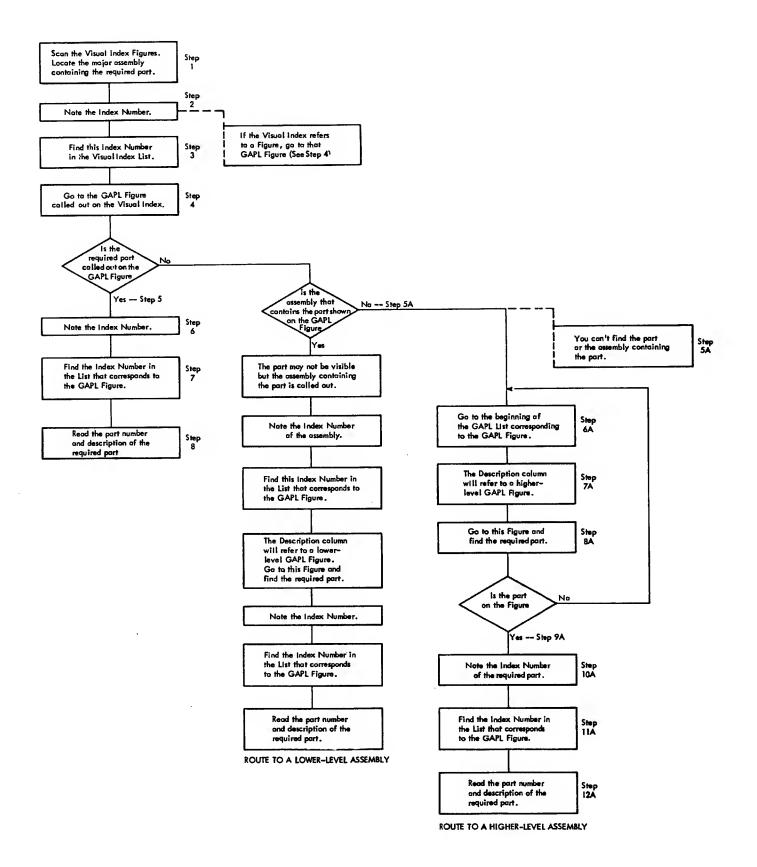
Higher-Level Assembly

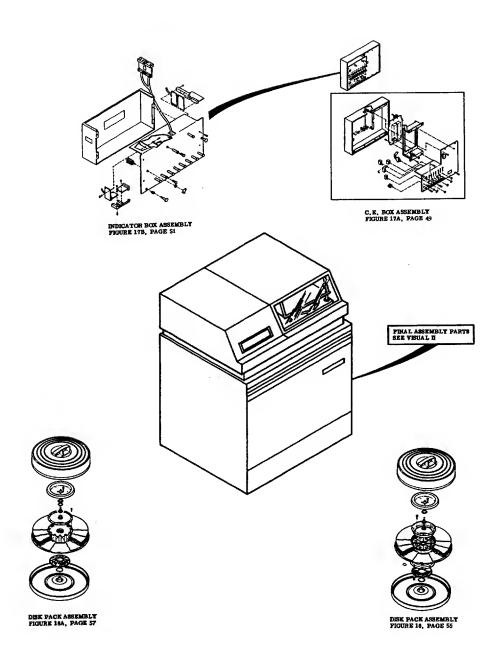
The most puzzling instance is when neither the part you are looking for, nor its assembly, is found on the first GAPL Figure. Steps 5A through 12A in the flow chart show the method. Note the loop after Step 8A of the flow chart provides for more than one level of "backing up" to find a part. If you do not find your part, go to the next higher-level, as indicated in Step 7A.

New Catalogs

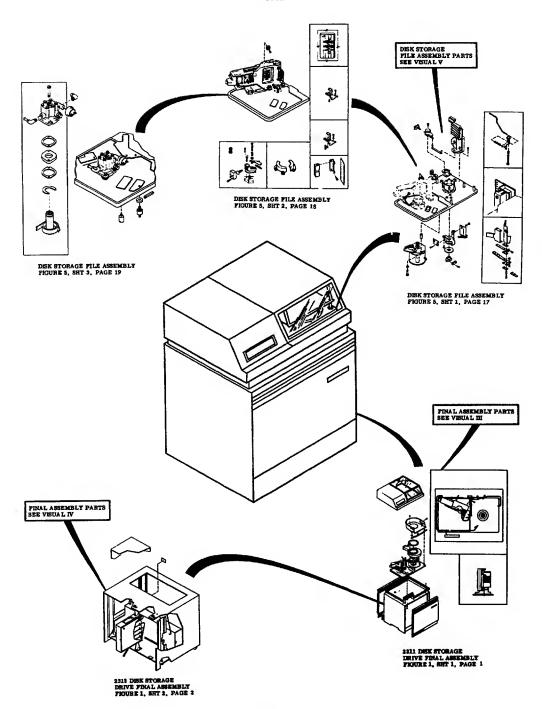
Catalogs issued after 1966 will contain improved methods of cross-referencing. New Visual Indexes will reference detailed figures directly, rather than through a list. Also, references to higher- or lower-level assemblies will be direct from figure to figure.

HOW TO FIND A PART

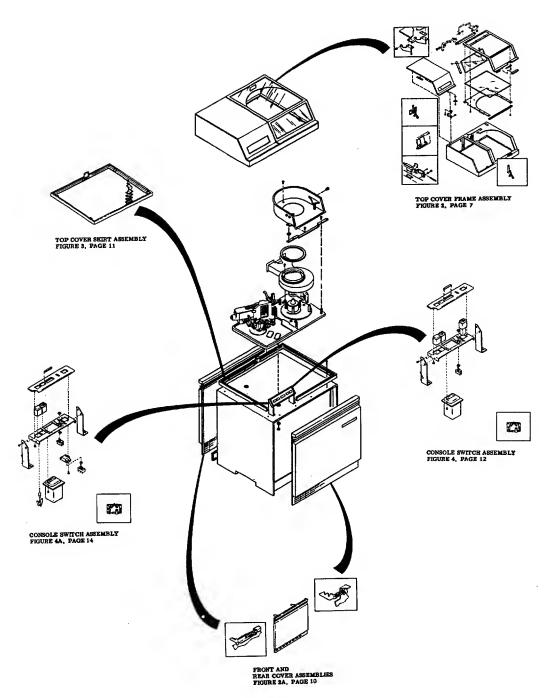




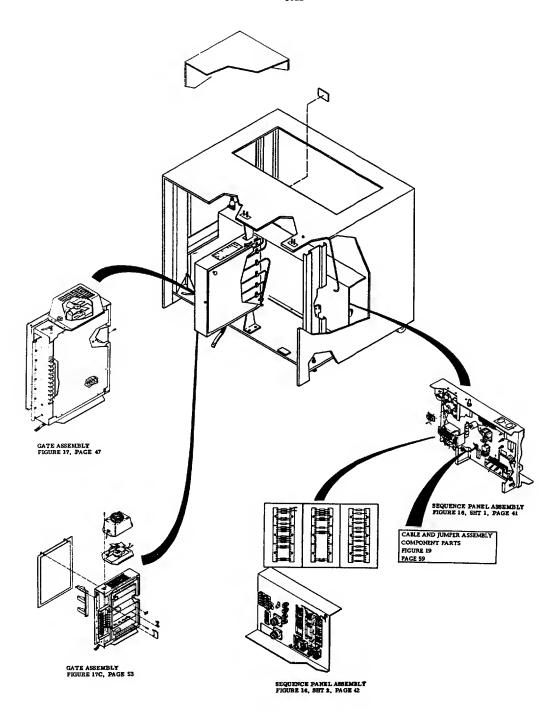
VISUAL I



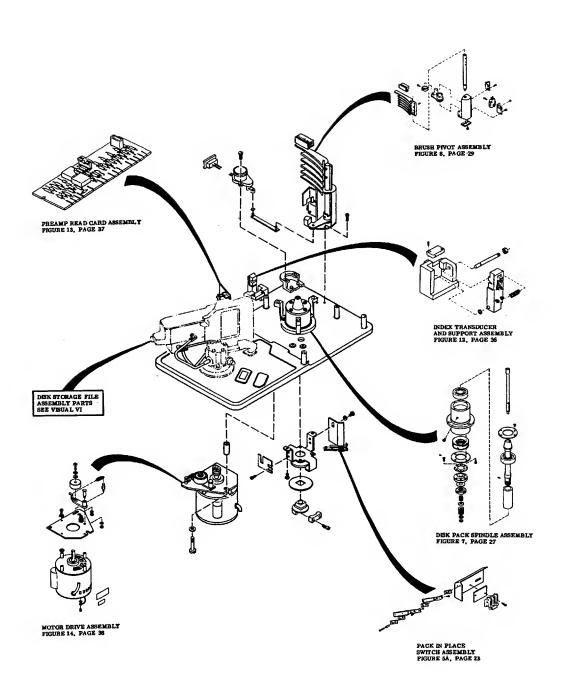
VISUAL II



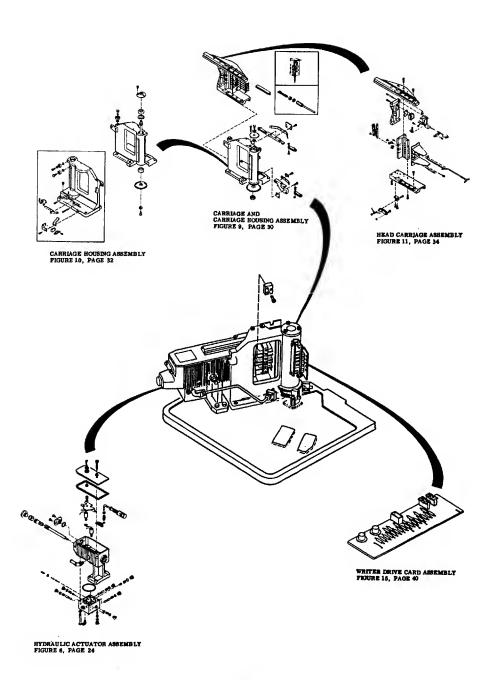
VISUAL III



VISUAL IV



VISUAL V



VISUAL VI

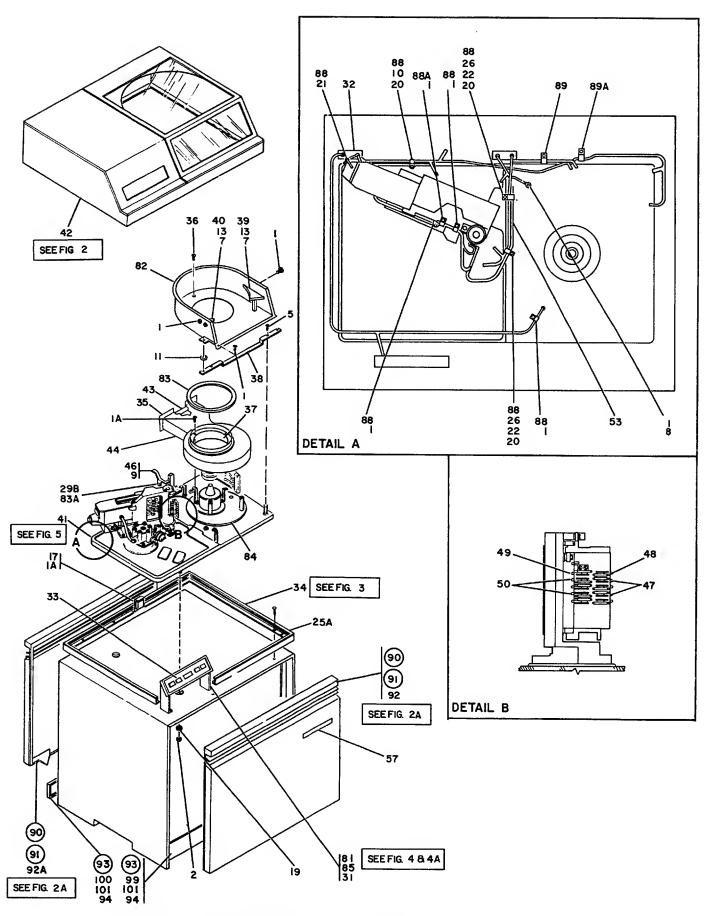


FIGURE 1. 2311 DISK STORAGE DRIVE FINAL ASSEMBLY. SHEET 1 OF 2. SEE LIST 1.

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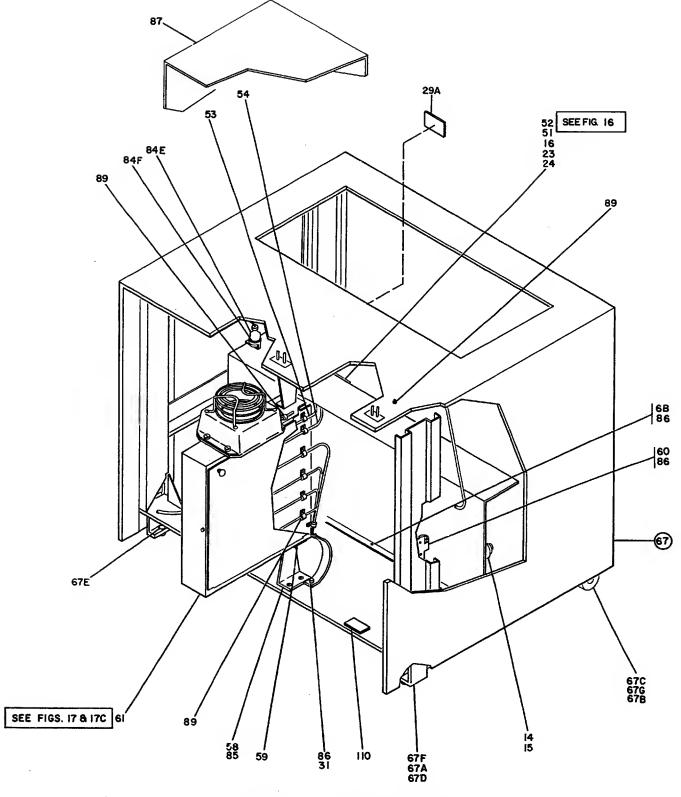


FIGURE 1. 2311 DISK STORAGE DRIVE FINAL ASSEMBLY. SHEET 2 OF 2. SEE LIST 1.

1 -		CODE A USED ON 60 CYCLE MACHINES CODE B USED DN 5D CYCLE MACHINES CODE C USED DN BLUE COVER DDMESTIC MACH. CODE D USED ON REO COVER DDMESTIC MACH. CODE E USED ON YELLOW COVER DDMESTIC CODE F USED ON MED COVER WICE MACHINES CODE H USED ON BLUE COVER WICE MACHINES CODE H USED ON BLUE COVER WICE MACHINES CODE H USED ON RED COVER WICE MACHINES CODE K USED ON YELLOW COVER WICE MACHINES CODE K USED ON MED COVER WICE MACHINES CODE L USED ON MED COVER WICE MACHINES CODE L USED ON MED WILLOW COVER WICE MACHINES CODE M USED ON 36D IBM INSTALLATIONS CODE M USED ON ASM FROM INSTALLATIONS CODE 1 USED ON ASM FROM L5 TO CURRENT CODE 3 USED ON ASM FROM L5 TO CURRENT CODE 4 USED ON ASM FROM P5 TO CURRENT CODE 5 USED ON ASM FROM P5 TO CURRENT CODE 5 USED ON ASM FROM P6 TO CUPRENT CODE 6 USED ON ASM FROM A6 TO CUPRENT CODE 7 USED ON ASM FROM A6 TO CUPRENT		
1 -		CODE B USED DN 5D CYCLE MACHINES CODE C USED DN BLUE CDYER DDMESTIC MACH. CODE D USED ON REO CDVER DDMESTIC MACH. CODE E USED ON YELLOW COVER DDMESTIC CODE F USED ON GREY CDVER DOMESTIC MACH. CODE G USED ON BLUE COVER WITC MACHINES CODE H USED ON RED CDVER WITC MACHINES CODE J USED ON YELLOW COVER WITC MACHINES CODE K USED ON GRAY COVER WITC MACHINES CODE L USED ON 36D IBM INSTALLATIONS CODE M USED ON 36D IBM INSTALLATIONS CODE M USED ON ASM PRIOR TO L5 SUFFIX CODE 2 USED ON ASM FROM L5 TO CURRENT CODE 3 USED ON ASM FROM D5 TO CURRENT CODE 5 USED ON ASM FROM P5 TO CURRENT CODE 6 USED ON ASM FROM P5 TO CURRENT		
		CODE B USED DN ASM PRIOR TO G6 SUFFIX CDDE 9 USED ON ASM FROM G6 TD CURRENT		
-	218D500	FINAL ASSEMBLY, 6D CYCLE SEE FIGURE 1 FDR ILLUSTRATION	REF	A
-	218D850	SEE FIGURE 1 FDR ILLUSTRATION FINAL ASSEMBLY, 50 CYCLE SEE FIGURE 1 FOR ILLUSTRATION	REF	8
- 1 - 1	10170 - 10170	- SCREW-MACH, BIND HD NO. 6-32 X .25D LG - SCREW-MACH, BIND HD ND. 6-32 X .25D LG	1D 6	8 9
- 1A - 1A	10170 2181D05~	• SCREW-MACH, BIND HO NO. 6-32 X .250 LG • SCREW, SELF TAPPING, 6-32 X .375 LG.	5	5
- 18	10170	• SCREW-MACH, BIND HD NO. 6-32 X .250 LG SEE FIGURE 16- 1 FOR ILLUSTRATION	2	Ü
- 2 - 2A	25793~ 25627~	. NUT, PLAIN, HEX- 5/16-18 x 1/2 FL W . SCREW, MACH-BIND HD 8-32 x 1/2 LG	3 4	2
- 28	34512-	SEE FIGURE 16- 3A FOR ILLUSTRATION • SCREW, BIND. HO 8-32 X .375 LG	i i	2
- 3	38235-	SEE FIGURE 16- 6A FDR ILLUSTRATION • SCREW,MACH-FIL H 6-32 X 5/16 LG	1 1	
- 4 - 4	38264 21812D7	• SCREW, MACH-FIL H 4-40 X 3/B LG • SCREW, THD FDRMING-FIL H 6-32 X 1/4 LG		1 2
- 4A	38354	SEE FIGURE 16- 4A FOR ILLUSTRATION - SCREW, MACH-FIL H 6-32 X 1/2 LG	4	
- 5 - 6	38443~ 55726~	SEE FIGURE 16- BA FOR ILLUSTRATION SCREW, FLAT HEAD, 6-32 X 5/16 LG SCREW, MACH-SING MD AD X 5-32 X 3/14 LG	2	
- 6A	55901~	SCREW, MACH-BIND HD NO. 6-32 X 3/16 LG SEE FIGURE 16- 11 FOR ILLUSTRATION LOCKWASHER, EXTERNAL TOOTH	5	2
- 68	56079	SEE FIGURE 16- 12B FOR ILLUSTRATION • WASHER, LOCK-EXT T .195 ID .410 DO		_
- 7 - 8	56722~ 62031	WASHER,LOCK-EXT I .141 ID WASHER,LOCK-INT TEETH NO. 6 X D.295 OO	2	2 8
- 9	8D651~	. SCREW, SELF-TAPPING BINO HD 3/8 LG	2 2	
- 10 - 11	81693 - 111229-	. SCREW, MACH-BIND HD NO 6-32 X 3/B LG . WASHER	1 2	В
- 13	186927~	INDEX 12 OELETEO SCREW, CAP, SOC HD- 6-32 X 1/4 LG	2	В
- 14 - 14	187491 187491	• SHIELD,1D PDSITION 15AMP • SHIELD,10 PDSITION 15AMP	1 1	A 78
- 15 - 15	21D984~ 21D984	• SCREW, RD HD MACH-6-32 X •25D LG • SCREW, RD HD MACH-6-32 X •250 LG	1	A 78
- 15	210984	. SCREW, RD HD MACH-6-32 X .250 LG	1	7

_					
- 1	LIST AND			UNITS	USABLE
l	INDEX	PART	DESCRIPTION	PER	ON
- 1	NO.	ND.	1 2 3 4	ASM.	CODE
ŀ					
- 1			2311 DISK STDRAGE DRIVE FINAL ASSEMBLY -CDNT		
- 1					
- 1				1	
*	1 - 16	221790~	. SCREW, MACH-BIND HD 8-32 X 3/16 LG	4	1
		2181004	. SCREW, THREAD FORMING-HEX WASHER HD	4	2
	- 17	231658-	. SWITCH, INTERLOCK	1	
- 1	- 18	257958-	• SETSCREW, HEADLESS	5	
*			SEE FIGURE 8- 2A FOR ILLUSTRATION	3	
	- 19	257983~	. WASHER, LDCK SPLIT 0.591 OD X 0.078 THK . WASHER, FL- NO. 6 X 0.312 OD	6	
- 1	- 20	257986~ 322550~	SCREW, MACH-BIND HD NO. 6-32 X 1/2 LG	4	
- 1	- 21 - 22	322552-	. SCREW, MACH-BIND HD NO. 6-32 X 7/8 LG	2	
	- 22A	359044	. TUBING	AR	
1			SEE FIGURE 5- 23A FOR ILLUSTRATION		
	- 23	362915	. LABEL, IBM, BLACK LETTERS ON WHITE	1	
*		240207	SEE FIGURE 16- 56A FOR ILLUSTRATION	1	
- {	- 24 - 25	369207 372688-	. LABEL, VOLTAGE . CARD ASSEMBLY	î	
	- 25	312000	SEE FIGURE 16- 58 FOR ILLUSTRATION		
*	- 25A	601093	. SCREW, MACH-BIND HD 8-32 X 3/8 LG	6	
	- 26	601365	. SPACER, 1/2 LG X 1/4 DD X 0.152 ID	2	38
*	- 26A	734879~	- SWITCH, TOGGLE, DPDT,	"	, , ,
- [- 27	740490	NOT ILLUSTRATED	1	
*	- 21	ŀ	SEE FIGURE 4- 25 AND 4A- 24	1	
*		•	FOR ILLUSTRATION	1 -	
- 1	- 28	740493	. BRACKET, CARD MOUNTING	1	
1	- 30	740550	SEE FIGURE 16- 83 FDR ILLUSTRATION JUNPER ASSEMBLY, 2-1/2 INCH	2	İ
	- 29	740550	SEE FIGURE 16- 84 FDR ILLUSTRATION		
*	- 29A	845762	. DECAL-VOLTAGE	1	9
		1073418~	• RING-RETAINING	1 2	
	- 30	2125765	• LOCKWASHER, DISHED SEE FIGURE 16- 99E FOR ILLUSTRATION	'	
*	- 31	2125974	. WASHER, INT TOOTH, .2DO ID X .562 DO	3	
l		2154009	- GROMMET, RUBBER	2	
*	- 33	2154534	. BUTTON, NUMBER O	AR	
*		2154540	. BUTTON, NUMBER 1	AR AR	1
*		2154541	. BUTTON, NUMBER 2	AR	
*		2154542 2154542	. BUTTON, NUMBER 3 . BUTTON, NUMBER 3	AR	
		2162847	- BUTTON, NUMBER 6	AR	1
*		2162848	. BUTTON, NUMBER 8	AR	1
*	- 33	2180781	. BUTTON, NUMBER 5	AR AR	1
*	- 33	2180782	• BUTTON• NUMBER 7 SEE FIGURE 4- 26 FOR ILLUSTRATION	""	1
	- 34	2157620	. SKIRT ASSEMBLY, TOP COVER	1	
į	34		SEE LIST 3 FOR DETAIL BREAKDOWN		1
*	- 35	2157649	- GASKET, SKIRT ASSEMBLY	AR - AR	
*	- 35	2157643	• SEAL, TOP COVER • SCREW, MACHINE-BIND HD, 6-32 X 0.437 LG	1	
	- 36 - 37	2157666	. SCREW, MACHINE-BIND HD, 6-32 X 0.437 LG	i	
*	- 31 - 38	2160715 2160719	. BRACKET, SHROUD MOUNT	1	
*	- 38	2181291	. BRACKET, SHROUD MOUNT	1	9
*	- 39	2162564	- GUIDE, DISK PACK RH	1 1	8
*		2162565	. GUIDE, DISK PACK LH . FILE ASSEMBLY, 60 CYCLE	1	_
	- 41	2180400	SEE LIST 5 FOR DETAIL BREAKDOWN		
	- 41	2180860	. FILE ASSEMBLY, 50 CYCLE	1	В
	· -	}	SEE LIST 5 FOR DETAIL BREAKDOWN		
	- 42	218047D	FRAME ASSEMBLY, TOP COVER	1	
	- 43	21 904 75	SEE LIST 2 FDR DETAIL BREAKDOWN . HOUSING, FILTER	1	
		2180475	. AIR DUCT	1	
	- 45	2180499	. BRUSH ASSEMBLY, DISK PACK	5	
*			SEE FIGURE 8- 17 FOR ILLUSTRATION	١.,	2
*	- 46	2180519	PADDLE, INDEX TRANSDUCER	1 1	3
*	- 46. - 47	2181D39 218056D—	. PADDLE, INDEX TRANSDUCER . HEAD ASSEMBLY, A-UP	2	
		1200300			
		1			
				İ	1
		1		-	

INOEX NO.	PART NO.	DESCRIPTION 1 2 3 4	UNITS PER ASM-	USABI ON COOL
		2311 OISK STORAGE ORIVE FINAL ASSEMBLY -CONT		
1 - 48	2180561~	- HEAO ASSEMBLY, A-DOWN	3	
- 49	2180562	. HEAO ASSEMBLY, B-UP] 3.	
- 50 - 51	21 80563- 21 80679	. HEAO ASSEMBLY, 8-OOWN . COVER, SEQUENCE PANEL	2	
	2180680	. PANEL ASSEMBLY, SEQUENCE, 60 CYCLE	l i	A
		SEE LIST 16 FOR DETAIL BREAKOOWN		
- 52	2180852	. PANEL ASSEMBLY, SEQUENCE, 50 CYCLE	1	8
- 53	2180687	SEE LIST 16 FOR OETAIL BREAKDOWN CABLE ASSEMBLY, HEAD CAROS TO GATE	l ı	
- ,,	2180087	SEE LIST 19-3, 3A, 12, 130, 14, 210, 36,	1	
		36A, 55 ANO 62, FOR COMPONENT PARTS		
- 54	2180690~	. CABLE ASSEMBLY, GATE TO TRANSOUCER	1	
		SEE LIST 19-138, 20, 53, 55, 59, 60, 61, AND 62, FOR COMPONENT PARTS		
- 55	2180691	. CABLE ASSEMBLY, OC TO GATE	1	
		SEE FIGURE 16- 132 FOR ILLUSTRATION		
	2180692	. CABLE ASSEMBLY, SIGNAL PLUG TO GATE	1	1
- 56	2181189	CABLE ASSEMBLY-SIGNAL PLUG TO GATE SEE FIGURE 16- 133 FOR ILLUSTRATION	1	2
- 57	2180714	. NAME PLATE, 2311 DISK STORAGE ORIVE	1	А
	2180714	. NAME PLATE, 2311 DISK STORAGE ORIVE	i	8
		USEO ON LANGUAGE GROUP ENGLISH		
. 57	4307403	FEATURE ONLY P/N 2180861 - PLATE, NAME, GERMAN	1	8
- 57	4207403	USEO ON LANGUAGE GROUP FRENCH	•	ů
		FEATURE ONLY P/N 2180862		
- 57	4207404	. PLATE, NAME, FRENCH	1	8
		USED ON LANGUAGE GROUP GERMAN		
- 58	2180723	FEATURE ONLY P/N 2180863 BRACKET, GATE	2	
- 59	2180735	. BRACKET, GATE STOP	1	
- 60	2180737	. LATCH, GATE	1	_
- 61	21 80740	GATE ASSEMBLY	1	5
- 61	2180740	SEE LIST 17 FOR OETAIL BREAKDOWN GATE ASSEMBLY	1	6
٠.		SEE LIST 17C FOR OETAIL BREAKDOWN	_	_
		INDEXES 62 THRU 66 DELETED	١.	
	2180873	. MODULE ASSEMBLY, LOWER STRUCTURE . SCREW, MACH-HEX HO 1/4-20 X 1/2 LG	1 2	
	38686 186950	NUT, HEX	4	
	2180845	• • CASTER	4	
	2180846	LOCKWASHER, SHAKEPROOF	2	
	2180847 2180848	PAO, STANO STANO, STEEL, 6 INCHES LONG	2 2	
	2180968	NUT, GRIP, 1/2-13 UNC	4	
		INDEXES 68 THRU 80 DELETED		
- 81	21 8091 8	. SWITCH ASSEMBLY, CONSOLE, 60 CYCLE	1	14
- 81	21 9001 0	SEE LIST 4 FOR OETAIL BREAKOOWN SWITCH ASSEMBLY, CONSOLE, 50 CYCLE	1	18
- 01	2180919	SEE LIST 4 FOR DETAIL BREAKOOWN	*	٦٠
- 81	2180918	. SWITCH ASSEMBLY, CONSOLE, 60 CYCLE	1 1	2 A
		SEE LIST 4A FOR DETAIL BREAKOOWN	1 .	
- 81	2180919	SWITCH ASSEMBLY, CONSOLE, 50 CYCLE SEE LIST	1	28
- 82	2181022	. SHROUD.OISK TOP COVER-STEEL	1	8
- 82	2181290	. SHROUD, DISK TOP COVER-PLASTIC	1	9
	2181023	. SEAL, 7.50 IO X 8.50 OO X .187 THICK	1 1	
	2181043 2181070	. STUO, AOJUSTABLE PIVOT . SEAL, FILTER HOUSING	1 1	4
	2181199	. CLIP-STRAIN RELIEF	4	2
		SEE FIGURE 16- 145 FOR ILLUSTRATION		
- 84B	2181204	. JUMPER ASSEMBLY	1	2
		SEE FIGURE 16- 146 FOR ILLUSTRATION	1 .	_
- 84C	2181205	. JUMPER ASM-GRN/YEL 1 LUG 2 SOCK CONTACTS	1	2
- 84O	2181206	SEE FIGURE 16- 147 FOR ILLUSTRATION BAR,ADAPTER *	2	2
040		SEE FIGURE 16- 148 FOR ILLUSTRATION		
- 84E	2181271	. BOTTLE, PLASTIC- B OUNCE	1	9
	2181272	. CLIP-BOTTLE	1 6	9
	5319888 5348495	• SCREW, SELF TAPPING, 10-32 X • 625 LONG • SCREW	ا ۋ	1
- 86 - 86	2181004	• SCREW, THREAD FORMING-HEX WASHER HO	9	2
	7350362	. COVER, SHIPPING . SHROUG-SUBSTITUTE PART	1	8
• •				9

	LIST AND INDEX •ON	PART NO-	OE SCRIPTION	UNITS PER ASM•	USABLE ON CODE
			2311 DISK STORAGE ORIVE FINAL ASSEMBLY -CONT		
* * *	- 88A - 89	NC NO. NC NO. NO NO.	. CABLE CLAMP, SEE LIST 19-I . CABLE CLAMP, SEE LIST 19-1 . CABLE CLAMP, SEE LIST 19-2 . CABLE CLAMP, SEE LIST 19-2	AR AR AR AR	1
	- 90 - 90 - 90	2180910 2180911 2180912 2180913	COVER GROUP FEATURE-BLUE 60 CY DOMESTIC COVER GROUP FEATURE-REO 60 CY DOMESTIC COVER GROUP FEATURE-YELLOW 60 CY DOM. COVER GROUP FEATURE-GREY 60 CY DOMESTIC	REF REF REF	C 0 E F
* *	- 90 - 90 - 90	2181034 2181035 2181036 2181037	COVER GROUP FEATURE-BLUE 50 CYC WTC COVER GROUP FEATURE-REO 50 CYC WTC COVER GROUP FEATURE-YELLOW 50 CYC WTC COVER GROUP FEATURE-GREY 50 CYC WTC	REF REF REF	G H J K
-	- 90A	2154286	PLATE, IOENTIFICATION NOT ILLUSTRATEO USEO ON CODES G THRU K ONLY	1	С
	- 91 - 91 - 91	2173540 2178541 2178542 2173543	COVER GROUP-BLUE COVER GROUP-RED COVER GROUP-YELLOW CUVER GROUP-GREY	1 1 1 1	D E F G
	- 91 - 91 - 91	2181030 2181031 2181032 2181033	- COVER GROUP-BLUE - COVER GROUP-REO - COVER GROUP-YELLOW - COVER GROUP-GREY	1 1 1	J K
		2180894 2181924	FRONT COVER ASSEMBLY-ODMESTIC USEO ON CODES C THRU F ONLY SEE LIST 2A FOR DETAIL BREAKODWN FRONT COVER ASSEMBLY-WORLD TRADE	1	
	- 92A	2180895	USEC ON CODES G THRU K ONLY SEE LIST 2A FOR DETAIL BREAKOOWN REAR COVER ASSEMBLY-DOMESTIC USED ON CODES C THRU F ONLY	1	
	- 92A	2161027	SEE LIST 2A FOR DETAIL 8REAKOWN REAR COVER ASSEMBLY-WORLO TRADE USEO ON CODES G THRU K ONLY SEE LIST 2A FOR DETAIL 8REAKDOWN	1	
* * *	- 93 - 93 - 94 - 94	2180900 2181225 28413 509772	SHIPPING GROUP-18M 360 INSTALLATION SHIPPING GROUP-NON IBM 360 INSTALLATION SCREW,MACH-8INO HO 10-32 X 5/16 LG SCREW	REF REF 6	5 6
	- 95 - 96	2108474 2108626	- PAOOLE-HEAO CLEANING NOT ILLUSTRATEO - KEY-HEAO ARM AOJUSTMENT NOT ILLUSTRATEO	1	M
	- 97	2108913	. AOAPTER ASSEMBLY NUT ILLUSTRATEO	55	M
		2162567 2180901 2180902	- WIPER, DISK NOT ILLUSTPATEO - KICKSTRIP, FRONT - KICKSTRIP, REAR	1 1	"
*	-101 -103	2180915 2133908	- CLIP, KICKSTRIP MOUNTING INOEX 102 OBLETEO R AND S 60 CYCLE METER FEATURE NOT ILLUSTRATED	REF	A
	-103 -104	2133909 11598	R AND S 50 CYCLE METER FEATURE NOT ILLUSTRATEO - NUT PLAIN HEX 10/32	REF	В
	-105 -106	32617 56121~	NOT ILLUSTRATEO SCREW, MACH BO HO 10-32 NF X .4375 LG NOT ILLUSTRATEO WASHER, LDCK-INT TEETH ND. 10 X 0.381 OD	1	}
	-107	813197	NOT ILLUSTRATEO - HOUSING-TERMINAL NOT ILLUSTRATEO	1	
	-108 -109	2180890 580427 1 —	. METER ASSEMBLY-R AND S NOT ILLUSTRATED . CARO ASSEMBLY, SLT NOT ILLUSTRATEO	1	
* *	-110 -110 -110	122639 180528 124631	PLATE, IOENTIFICATION-SALE SERIAL NUMBER PLATE, IDENTIFICATION-SERIAL NUMBER PLATE, IDENTIFICATION-LEASE W/SALE OPTION SEE LIST 4A- 26 FOR NEXT HIGHER ASM.	1 1 1	B B 8

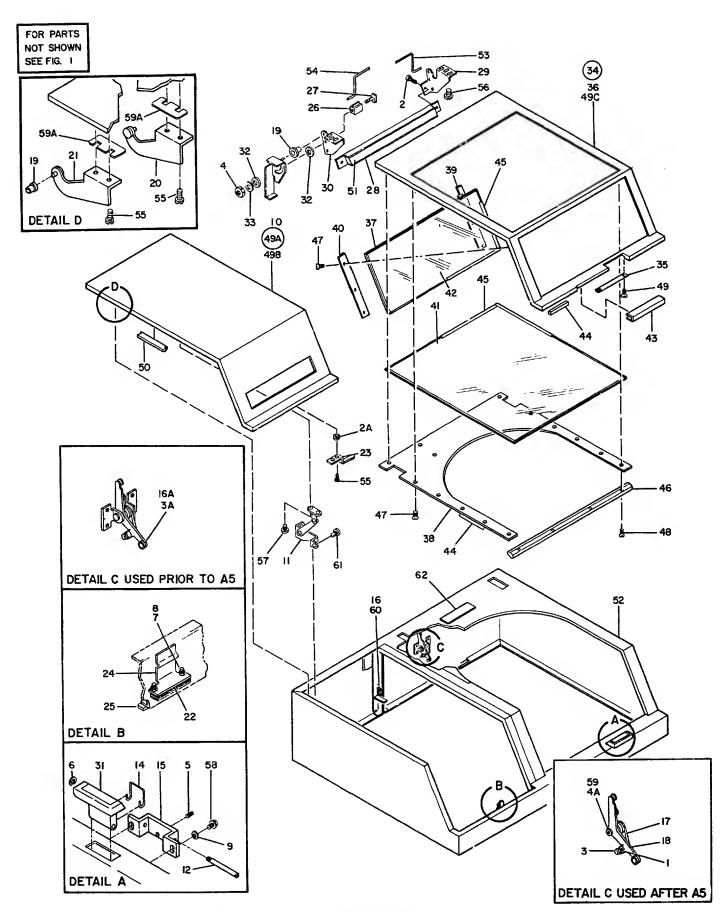
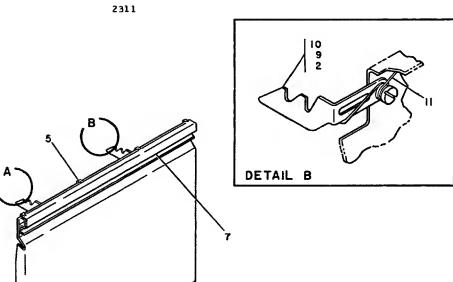


FIGURE 2. TOP COVER FRAME ASSEMBLY. SEE LIST 2.

	LIST AND INDEX NO.	PART NO.	OESCRIPTION 1 2 3 4	UNITS PER ASM.	USABLE ON COOE
			TOP COVER FRAME ASSEMBLY		
******	2 -		COOE 1 USED ON ASM PRIOR TO A5 SUFFIX COOE 2 USED ON ASM FROM A5 TO CURRENT COOE 3 USED ON ASM PRIOR TO G5 SUFFIX COOE 4 USED ON ASM FROM G5 TO CURRENT COOE 5 USED ON ASM FROM B6 TO CURRENT COOE 6 USED ON ASM FROM 86 TO CURRENT COOE 7 USED ON ASM PRIOR TO E6 SUFFIX COOE 8 USED ON ASM FROM E6 TO CURRENT COOE 9 USED ON ASM FROM E6 TO CURRENT		
•	-	2180470	FRAME ASSEMBLY, TOP COVER SEE LIST 1- 42 FOR NEXT HIGHER ASM.	REF	
* * * * *	- 1 - 2 - 2A - 3 - 3A - 4 - 4A	3960 10170 22478 59647 72828 125930 344015 251446	AND FIGURE 2 FOR ILLUSTRATION NUT, PLAIN, HEXT 1/4-20 X 7/16 FL W SCREW, MACH-BIND HD 6-32 X 1/4 LG WASHER, FL- 0.170 IO 0.375 DO 0.032 THK SCREW, MACH-HEX HO 1/4-20 X 1 LG NUT, SELF LKG, HEXT 8-32 X 0.334 FL W NUT, PLAIN HEX 10/32 NUT, SELF LKG, HEXT 6-32 X 5/16 FL W SCREW, HEADLESS SET, 6-32 X 5/16 LG	1 2 AR 1 4 2 1 55	2 9 2 1 2 6
*	- 6 - 7 - 8 - 9 - 10	257982 344015 438573 2125974 2157628	- CLIP, RETAINING - NUT, SELF LKG, HEX- 6-32 X 5/16 FL W - SCREW, MACHINE FLAT HEAD - WASHER, INT TOOTH, -200 IO X -562 OO - COVER, LEFT HANO TOP	1 2 2 2 1	7
*	- 11	2157632 2157639 2157647	- STAY BRACE, LEFT HAND TOP COVER - SHAFT, LATCH PIVOT, RIGHT HAND COVER - SCREW, MACHINE-BIND. HEAD, 6-32 X 1/4 LG NOT ILLUSTRATED	1 1 2	7
* * *	- 15 - 16 - 16A - 17 - 18	2157665 2157693 2160849 2162500 2162507 2162543 2162720	SPRING, R.H. COVER, TOP MACHINE BRACKET, LATCH MOUNTING, R.H. COVER RACKET, ACTUATOR, C.E. SMITCH LEVER ASSEMBLY, SECTOR BLOCK TORSION SPRING, RETRACT MECHANISM CRANK ASSEMBLY, RETRACT MECHANISM BUSHING, HINGE	1 1 1 1 1 4	1 2 2
* * * *	- 21 - 22 - 23 - 23 - 24	2162721 2162723 2162793 2162843 2181072 2162844 2181073	- HINGE, LH, CE COVER - HINGE, RH, CE COVER - CLAMP PLATE, SPRING - STRIKER, LH COVER - STRIKE-LEFT HAND COVER - LATCH, LH COVER - LATCH-L-H- COVER	1 1 2 1 1 1	3 4 3 4
_	- 25 - 26 - 27 - 28 - 29 - 30 - 31 - 32	2162959 2162961 2162962 2162963 2162964 2162965 2162966 2162969	- FELT, .062 X .375 WIOE, 8ULK - GUIOE, TORSION BAR - SCREW, TEE, 10-32 X 0.97 LG BAR, SWITCH - BRACKET, COVER RIGHT - BRACKET, COVER LEFT - LATCH, RH TOP COVER - RING, 0.625 OD, 0.195 IO, 0.125 THICK - WASHER, SPRING, 0.562 OD, 0.208 IO	AR 2 2 1 1 1 1	7
*	- 34 - 35 - 36 - 37 - 38	2162972 2162974 2157616 2162951 2162953 2162954 2162955	COVER ASM, TOP STRIKE, RIGHT HAND TOP COVER COVER, RH CHANNEL, WINDOW UNDERCOVER, RH TOP COVER CLAMP, RH	2 1 1 1 1	7 3
	- 40 - 41 - 42 - 43 - 44 - 45 - 46	2162956 2162957 2162958 2162967 2162977 2180976 2180991	CLAMP, LH GLASS, COVER GLASS, FRONT, COVER HANDLE, RH TOP COVER SEAL, TOP COVER PACKING, WINOOW SUPPORT, GLASS INTERMEDIATE	1 1 1 AR AR 24	
* * *	- 48 - 49 - 498 - 498 - 490	2181000 2181009 2181010 2181245 2157628 2162951 2162977 2162978	. SCREM, FLATHEAD UNDERCUT, 8-32 X .297 LG . SCREM, FLATHEAD UNDERCUT, 6-32 X .50 LG SCREM, FLATHEAD UNDERCUT, 6-32 X .437 . COVER ASSEMBLY-TOP DOOR . COVER, LEFT HAND TOP . COVER, RH . SEAL, TOP COVER . BUMPER, 1.00 X 0.75 X 12.50 LG	4 2 1 1 1 AR	8 8 8
		2162978 2180471	- BUMPER, 1.00 X 0.75 X 12.50 LG - FRAME, MAIN	1	

	LIST AND INOEX NO.	PART NO.	DESCRIPTION 1 2 3 4	UNITS PER ASM•	USABLE ON CODE
ı			TOP COVER FRAME ASSEMBLY -CONT		
* * *	- 53 - 54 2 - 54 - 55 - 56 - 57 - 58 - 59 - 60 - 61	2180966 2181086 2181087 2180967 2181005 2181008 2181001 2181011 2181012 2181021 2181314 5350006 5350012	BAR ASSEMBLY, TORSION-RIGHT HANO BAR, TORSION-RIGHT HANO BAR ASSEMBLY, TORSION-LEFT HANO BAR, TORSION-LEFT HAND SCREW, SELF TAPPING, 6-32 X .375 LG. SCREW, SELF TAPPING, 8-32 X .375 LG. SCREW, SELF TAPPING, 6-32 X .50 LG. SCREW, SELF TAPPING, B-32 X .437 LG. SCREW, SECTOR BLOCK LEVER SHIM, CE COVER HINGE SCREW, SELF TAPPING, 6-32 X .250 LONG SCREW, SELF TAPPING, 8-32 X .250 LONG SCREW, SELF TAPPING, 8-32 X .250 LONG	1 1 1 6 6 2 2 1 AR 2	3 4 3 4
*		2162679	LABEL, INSTRUCTION, PACK LOADING-ENGLISH USED ON 60 CYCLE FINAL ASSEMBLY FEATURE ONLY P/N 2180500 LABEL, INSTRUCTION, PACK LOADING-ENGLISH	1	5
	- 62	4061678	USEO ON LANGUAGE GROUP ENGLISH FEATURE ONLY P/N 2180B61 LABEL, INSTRUCTION, PACK LOADING-FRENCH USEO ON LANGUAGE GROUP FRENCH	1	5
*	- 62	4061679	FEATURE ONLY P/N 2180862 • LABEL, INSTRUCTION, PACK LOADING-GERMAN USED ON LANGUAGE GROUP GERMAN FEATURE ONLY P/N 2180863	1	5

FOR PARTS NOT SHOWN SEE FIG. 1



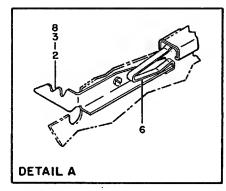


FIGURE 2A. FRONT AND REAR COVER ASSEMBLIES. SEE LIST 2A.

CDDE A USED DN ODMESTIC FRONT COVERS CDDE B USED ON DOMESTIC FRONT COVERS CDDE B USED ON DOMESTIC FRONT COVERS CDDE B USED ON DOMESTIC FRONT COVERS CDDE DN USED ON WORLD TRADE FRONT COVERS CDDE DN WORLD TRADE FRONT COVER ASSEMBLY—DOMESTIC SEE LIST 1 - 92 FOR NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION REAR COVER ASSEMBLY—DOMESTIC SEE LIST 1 - 92 FOR NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION REAR COVER ASSEMBLY—WORLD TRADE CDDE NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION REAR COVER ASSEMBLY—WORLD TRADE CDDE NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION REAR COVER ASSEMBLY—WORLD TRADE CDDE NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION REAR COVER ASSEMBLY—WORLD TRADE CDDE NEXT HIGHER ASM. CDDE NEXT HIGHER A			FIGURE 24. FRUNT AND REAR COVER ASSEMBLIES. SEE 210. DATE		
CODE A USED ON ODMESTIC FRONT COVERS CODE G USED ON WORLD TRADE FRONT COVERS CODE O USED ON WORLD TRADE FRONT COVERS CODE O USED ON WORLD TRADE FRONT COVERS CODE O USED ON WORLD TRADE FRONT COVERS CODE O USED ON WORLD TRADE FRONT COVERS - 2180894 FRONT COVER ASSEMBLY-DOMESTIC SEE LIST 1 - 92 FOR NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION - 2181024 FRONT COVER ASSEMBLY-DOMESTIC SEE LIST 1 - 92A FOR NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION - 2181027 REAR COVER ASSEMBLY-WORLD TRADE SEE LIST 1 - 92 FOR NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION - 2181027 REAR COVER ASSEMBLY-WORLD TRADE SEE LIST 1 - 92A FOR NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION - 1 45690 . MASHER, FL - NO.1D X 7/16 DD X 1/32 THK SEE LIST 1 - 92A FOR NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION - 1 45690 . MASHER, FL - NO.1D X 7/16 DD X 1/32 THK 2 1 25930 . NUT.PLAIN HEX 10/32 3 332620 . SCREM, MACH-SIND HD 10-32 X 1/2 LG 3 332620 . SCREM, MACH-SIND HD 10-32 X 1/2 LG 3 332620 . SCREM, MACH-SIND HD 10-32 X 1/2 LG 4 2180896 . COVER, FRONT 4 2180897 . COVER, REAR 4 2180897 . COVER, REAR 1 0 4 2180897 . COVER, REAR 1 1 0 4 2180896 . COVER, REAN 1 0 6 2180963 . SPRING, LATCH 6 2180963 . SPRING, LATCH 7 2180964 . TRIM, COVER 8 2180965 . LEVER, COVER 8 2180965 . LEVER, COVER 9 55918 . SCREM, MACH-SIND HD 10-32 X 5/8 LG 1 0 2181028 . LATCH, COVER-TOOL DYERATED 1 1 C 1281028 . LATCH, COVER-TOOL DYERATED 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28_		FRONT AND REAR COVER ASSEMBLIES		
SEE_LIST	ZA-		CODE B USED ON DOMESTIC REAR COVERS COOE C USEO ON WORLD TRADE FRONT COVERS		
Color Colo	-	2180894	SEE LIST 1- 92 FOR NEXT HIGHER ASM.	REF	A
- 2181024 FRONT COVER ASSEMBLY-WORLD TRADE SEE LIST 1 - 92 FOR NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION REF O REF OF SEE LIST 1 - 92 FOR NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION - 1 45690 SEE LIST 1 - 92 A FOR NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION - 1 45690 NATHER SEE LIST 1 - 92 A FOR NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION - 2 125930 NATHER SEE LIST 1 - 92 A FOR NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION - 3 332620 SCREW, HACH-BIND HD 1D-32 X 1/2 LG 2 A 3 32620 SCREW, HACH-BIND HD 1D-32 X 1/2 LG 2 A 3 32620 SCREW, HACH-BIND HD 1D-32 X 1/2 LG 3 32620 SCREW, HACH-BIND HD 1D-32 X 1/2 LG 1 C COVER, FRONT 1 A 2180896 COVER, FRONT 1 A 2180897 COVER, FRONT 1 A 2180897 COVER, FRONT 1 B A 2180963 SPRING, LATCH 2 COVER, REAR 3 COVER, FRONT 4 COVER, REAR 4 COVER, REAR 5 COVER, REAR 5 COVER, REAR 6 COVER, REAR 7 COVER, REAR 8 COVER, SPRING, LATCH 9 COVER, COVER 1 C	-	2180895	REAR COVER ASSEMBLY-ODMESTIC SEE LIST 1- 92A FOR NEXT HIGHER ASM.	REF	В
SEE LIST 1-92A FOR NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION 1 45690	-	2181024	FRONT COVER ASSEMBLY-WORLO TRADE SEE LIST 1- 92 FOR NEXT HIGHER ASM.	REF	С
- 2 125930	-	2181027	REAR COVER ASSEMBLY-WORLD TRACE SEE LIST 1- 92A FOR NEXT HIGHER ASM. AND FIGURE 2A FOR ILLUSTRATION		0
- 3 332620	- 1	45690			
- 3 332620				2	
- 3 332620	_			2	
- 3 332620	_				
- 4 2180896	_				_
- 4 2180897	_				_
- 4 2180896					
- 4 218D897	•				
- 5	•				
- 6 2180963	-				U
- 6 2180963	_				Δ
- 6 2180963	-		1	2	
- 6 2180963	_				
- 7 218D964 . TRIM, COVER	_		1		D
- 8 2180965	-			1	
- 8 2180965	- 8			2	A
- 8 2180965	- 8			2	
- 9 55918	- 8	2180965	. LEVER, COVER	1	
- 9 55918	- 8	2180965	. LEVER, COVER		
- 1D 2181028 . LATCH, COVER-TOOL OPERATED . 1 C . LATCH, COVER-TOOL OPERATED . 1 D . LATCH, COVER-TOOL OPERATED . 1 D . SPRING, TORSION-COVER LATCH . 1 C	-				
- 1D 2181D28 . LATCH, CDVER-TOOL OPERATED . 1 D . 1 2181D29 . SPRING, TDRSION-CDVER LATCH . 1 C	-				
- 11 2181029 • SPRING, TDRSION-COVER LATCH 1 C					
				1 1	_
- 11 STRINGS - SPRING, IURSION-COVER FAICH					
	- 11	5181058	- SPRING, IURSIUN-CUVER LATCH	1	D

FOR PARTS NOT SHOWN SEE FIG. I

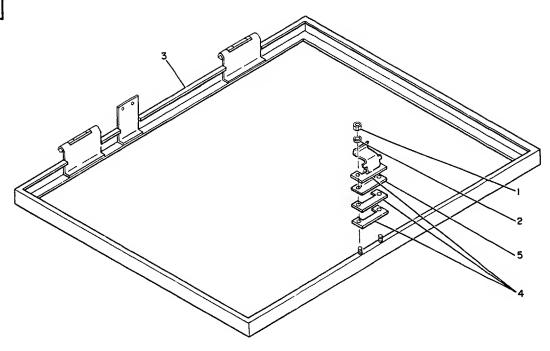
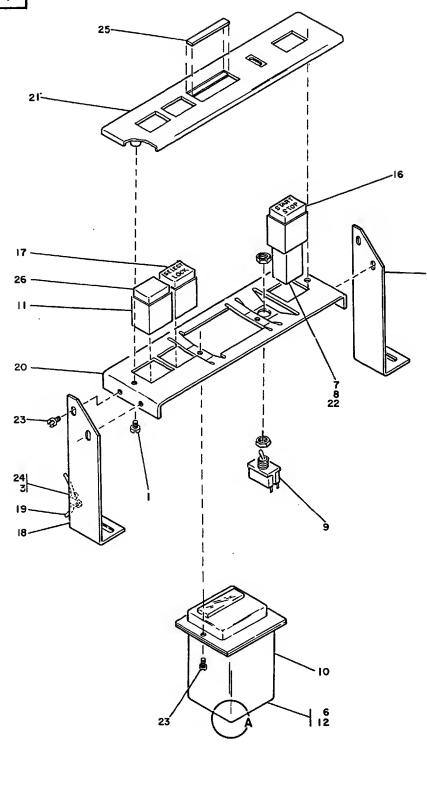


FIGURE 3. TOP COVER SKIRT ASSEMBLY. SEE LIST 3.

	LIST AND INDEX NO.	PART NO.	DESCRIPTION 1 2 3 4	UNITS PER ASM•	USABLE ON CODE
			TOP. COVER SKIRT ASSEMBLY		
*	3 -		CODE 1 USED ON ASM PRIOR TO 86 SUFFIX		
* * * * * *	- 1 - 2 - 3 - 3A - 4 - 4A	2157620 257189 1090873 2157615 216472 2162793 2162793 2162807	SKIRT ASSEMBLY, TOP COVER SEE LIST 1- 34 FOR NEXT HIGHER ASM. AND FIGURE 3 FOR ILLUSTRATION NUT, HEX., 8-32 X 0.3438 W WASHER, LOCK, 0.168 ID X 0.296 OO SKIRT, TOP COVER RESISTOR CLAMP PLATE, SPRING CLAMP PLATE, SPRING LATCH CENTER COVER	REF 2 2 1 2 2 1 1 1	1

FOR PARTS NOT SHOWN SEE FIG. I



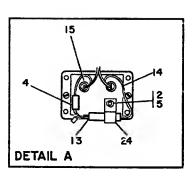
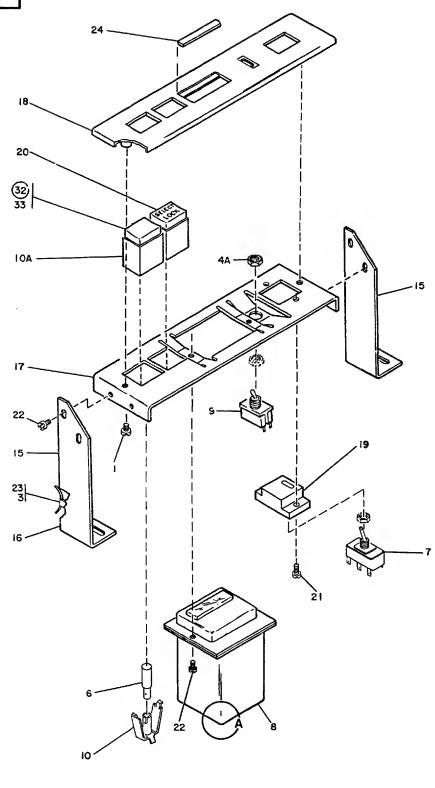


FIGURE 4. CONSOLE SWITCH ASSEMBLY. SEE LIST 4.

	LIST AND INOEX NO.	PART NO.	OESCRIPTION 1 2 3 4	UNITS PER ASM.	USABLE ON COOE
			CONSOLE SWITCH ASSEMBLY		
•	4 -		CODE A USED ON 60 CYCLE MACHINES - PRIOR TO L5 SUFFIX		
			CODE 8 USEO ON 50 CYCLE MACHINES - PRIOR TO L5 SUFFIX		:
	<u>-</u>	2180918	CODE 1 USED ON ASM PRIOR TO G5 SUFFIX SWITCH ASSEMBLY, CONSOLE, 60 CYCLE	REF	Α
•	-	2180919	SEE LIST 1- 81 FOR NEXT HIGHER ASM. AND FIGURE 4 FOR ILLUSTRATION SWITCH ASSEMBLY, CONSOLE, 50 CYCLE SEE LIST 1- 81 FOR NEXT HIGHER ASM.	REF	8
•	- 1 - 2 - 3 - 4	38235 55901 58207 213536	ANO FIGURE 4 FOR ILLUSTRATION SCREW, MACH-FIL H 6-32 X 5/16 LG LOCKWASHER, EXTERNAL TOOTH SCREW, MACH BNOG HO 8-32 X 1/4 LG RESISTOR, FXO, COMP - 100 OHMS P/M 5% 1/2W	2 1 1 1	1
	- 5 - 6 - 7 - 8 - 9	257187 320610 473629 719552 738826	. NUT, HEX OCUBLE CHAMFEREO 6-36 X 5/16 . RESISTOR, FXO, COMP, 180 OHM P/M 5% 2W . HOUSING, LAMP . SWITCH, ALTERNATE ACTION	1 3 1 1	
	- 10 - 10 - 11	740503 740608 760521 2101569	. SWITCH, TOGGLE . CLOCK, 60 CYCLE . CLOCK, 50 CYCLE . HOUSING, LIGHT, MICROSWITCH . TUBING, INSULATING-BULK	1 1 1 2 AR	A B
	- 14 - 15 - 16	2102374 2103416 2119605 2154545	• CAPACITOR, PAPER, 1.0 MFO P30/M20% 200V • TUBING, INSULATING • TUBING • LENS, START STOP, ENGLISH	AR AR 1	
	- 17 - 17 - 17 - 18	4061423 2157359 4061426 4061427 2157602 2180684	. LENS, START STOP, FRENCH . BUTTON, SELECT LOCK, ENGLISH . BUTTON, SELECT LOCK, GERMAN . BUTTON, SELECT LOCK, FRENCH . BRACKET, SWITCH MOUNTING . CABLE ASSEMBLY, PANEL TO SWITCHES . SEE LIST 19-5, 60, 74, 8, 178, 37, 374,	1 1 1 1 2 1	8 8 8
	- 21 - 22 - 23 - 24	2130920 2180921 2414924 5319854 NO NO.	57 ANO 78 FOR COMPONENT PARTS - BRACKET, SWITCH AND METER - FACE PLATE, SWITCH PANEL - LAMP, INDICATOR, INCANDESCENT - SCREW, SELF TAPPING, 8-32 X .375 LONG - CABLE CLAMP, SEE LIST 19-1	1 1 6 6	
•	- 26	740490 2154534 2154540 2154541	OECAL SEE LIST 1- 27 FOR NEXT HIGHER ASM. BUTTON, NUMBER O BUTTON, NUMBER 1 BUTTON, NUMBER 2	REF REF REF	
•	- 26 - 26 - 26 - 26	2154542 2154543 2162847 2162848 2180781 2180782	SUTTON, NUMBER 3 SUTTON, NUMBER 4 SUTTON, NUMBER 6 SUTTON, NUMBER 8 SUTTON, NUMBER 5 SUTTON, NUMBER 7	REF REF REF REF REF	
			SEE LIST 1- 33 FOR NEXT HIGHER ASM.		
	·				

FOR PARTS NOT SHOWN SEE FIG. I



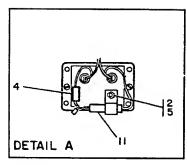


FIGURE 4A. CONSOLE SWITCH ASSEMBLY. SEE LIST 4A.

IST AND INDEX NO.	FART DESCRIPTION 1 2 3 4	UNITS PER ASM•	USA8I ON CODI
	CONSOLE SWITCH ASSEMBLY		
44-	CCDE A USED ON 60 CYCLE MACHINES FROM L5 SUFFIX TO CURRENT CDDE B USED ON 50 CYCLE MACHINES FROM L5 SUFFIX TO CURRENT CODE C USED ON 50 CYCLE LANGUAGE GROUP ENGLISH FEATURE ONLY P/N 218D861 CODE D USED ON 50 CYCLE LANGUAGE GROUP FRENCH FEATURE ONLY P/N 218D62 CODE E USED ON 5D CYCLE LANGUAGE GROUP GERMAN FEATURE ONLY P/N 218D863 CODE 1 USED ON ASM FROM L5 TO P5 SUFFIX CODE 2 USED ON ASM FROM L5 TO P5 SUFFIX CODE 3 USED ON ASM FROM P5 TO C6 SUFFIX CODE 4 USED ON ASM FROM P5 TO C6 SUFFIX CODE 5 USED ON ASM FROM C6 TO CURRENT CODE 6 USED ON ASM FROM C6 TO CURRENT CODE 7 USED ON ASM FROM P6 TO CURRENT		
- 21809		REF	A
- 21809	SEE LIST 1- 81 FOR NEXT HIGHER ASM.	REF	8
1 382 - 2 559 - 3 582 - 4 2135 - 4A 2205 - 5 2571 - 6 3164 - 6 53621 - 7 7253 - 7 7348 - 7 7253	LOCKWASHER, EXTERNAL TOOTH SCREW, MACH BNOG HO 8-32 X 1/4 LG RESISTOR, FXD, CDMP- 1DD OHMS P/M 5% 1/2W NUT, PLAIN, HEX- 15/32-32 X 5/8 FL W NUT - HEX-B-32UNC THD LAMP, 5AYDNET BASE, 35V, .05 AMP LAMP, INDICATOR -48VDCD6D AMPS-8AYONET SWITCH, TOGGLE, DPDT, SWITCH, TOGGLE, DPDT,	2 1 1 1 1 1 1 1 REF	1
- 7 7253 - 8 7405 - 8 7406 - 9 7413 - 10 8278 - 10A 8278 - 11 21023 - 15 21576	USED ON 5D CYCLE FINAL ASSEMBLY FEATURE ONLY P/N 218D85D SEE LIST 1- 26A FOR NEXT HIGHER ASM. SWITCH, TOGGLE-SPDT CLOCK, 6D CYCLE CLOCK, 50 CYCLE SWITCH, TOGGLE SOCKET, SINGLE CONTACT, 8AYONET BASE HOUSING-SWITCH AND LIGHT CAPACITOR, PAPER, 1.0 MFD P30/M20% 200V INDEXES 12 THRU 14 DELETED BRACKET, SWITCH MOUNTING	1 1 1 1 2 2 1	58 4 8
- 16 21806 - 17 21809 - 18 21809 - 18 21812 - 18 21812 - 19 21809 - 19 21809 - 19 21809 - 19 21809 - 20 21809 - 20 21809 - 20 21809 - 20 21809 - 20 21809 - 20 21809 - 20 21809 - 20 21809 - 20 21809 - 20 21809 - 21 21810 - 22 53198 - 23 NO NO - 24 7404	CABLE ASSEMBLY, PANEL TO SWITCHES SEE LIST 19-5, 6D, 7A, 8, 17B, 37, 37A, 57 AND 78 FOR COMPONENT PARTS BRACKET, SWITCH AND METER FACE PLATE, SWITCH PANEL FACE PLATE, SWITCH PANEL FACE PLATE, SWITCH PANEL FACE PLATE, SWITCH PANELFRENCH FACE PLATE, SWITCH PANELFRENCH HOUSING, SWITCH, START-STOP, ENGLISH HOUSING, SWITCH, START-STOP, ENGLISH HOUSING, SWITCH, START-STOP, FRENCH HOUSING, SWITCH, START-STOP, GERMAN LENS, SELECT LOCK, ENGLISH LENS, SELECT LOCK, ENGLISH LENS, SELECT LOCK, GERMAN SCREW, SELF TAPPING, 8-32 X .437 LG. CABLE CLAMP, SEE LIST 19-1	1 1 1 1 1 1 1 1 1 1 2 6 AR REF	ACDEACDEA

LIST AND INDEX ND.	PART NO.	DESCRIPTION 1 2 3 4	UNITS PER ASM	USABL ON CDDE
		CONSDLE SWITCH ASSEMBLY -CONT		
- 32 - 32 - 32 - 32 - 32 - 33 - 33 - 33	2133900 2133901 2133902 2133903 2133904 2133905 2133906 2133907 2180940 2180941 2180942 2180943 2180944 2180945 2180946 2180947	BUTTON, IOENTIFICATION-DRIVE NO. O BUTTON, IDENTIFICATION-ORIVE NO. I BUTTON, IDENTIFICATION-ORIVE NO. 2 BUTTON, IOENTIFICATION-DRIVE NO. 3 BUTTON, IOENTIFICATION-DRIVE NO. 4 BUTTON, IOENTIFICATION-DRIVE NO. 5 BUTTON, IDENTIFICATION-DRIVE ND. 6 BUTTON, IDENTIFICATION-DRIVE ND. 7 . LENS, NUMBER O USEO ON SELECTIVE BUTTON FEATURE 2133900 . LENS, NUMBER 1 USED DN SELECTIVE BUTTON FEATURE 2133901 . LENS, NUMBER 3 USEO DN SELECTIVE BUTTON FEATURE 2133903 . LENS, NUMBER 4 USED DN SELECTIVE BUTTON FEATURE 2133904 . LENS, NUMBER 5 USEO DN SELECTIVE BUTTON FEATURE 2133905 . LENS, NUMBER 6 USEO ON SELECTIVE BUTTON FEATURE 2133906 . LENS, NUMBER 7	REF REF REF REF REF REF 1 1	
		• LENS, NUMBER 6 USED ON SELECTIVE BUTTON FEATURE 2133906		
	·			

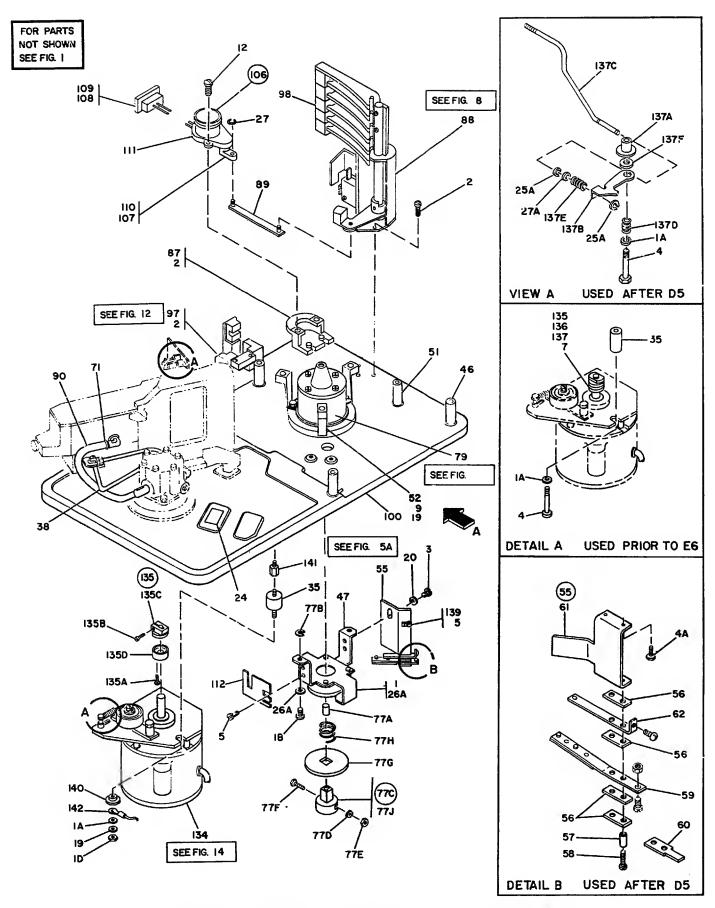


FIGURE 5. DISK STORAGE FILE ASSEMBLY. SHEET 1 OF 3. SEE LIST 5.

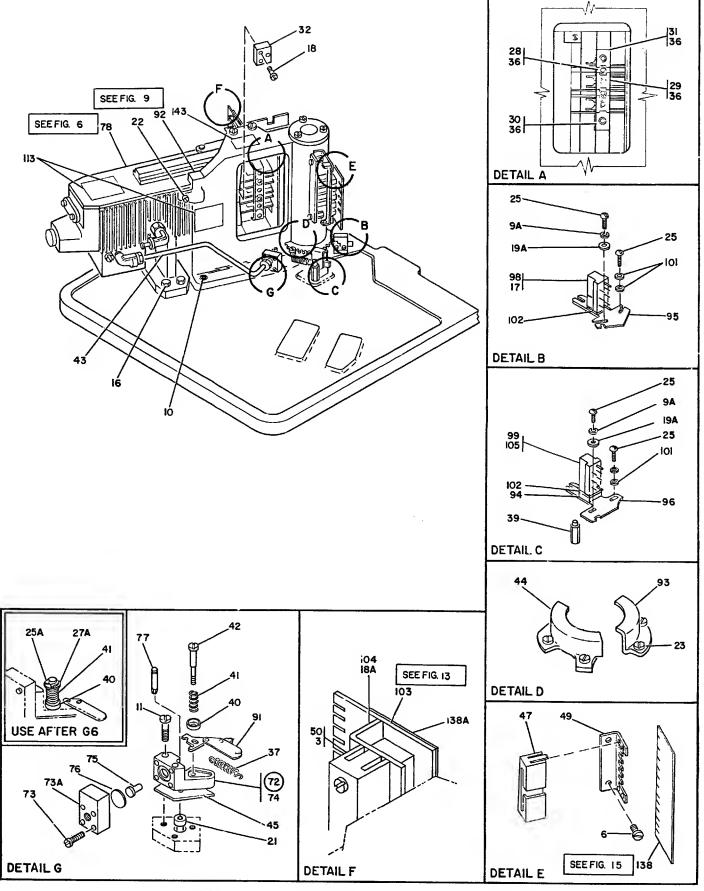


FIGURE 5. DISK STORAGE FILE ASSEMBLY. SHEET 2 OF 3. SEE LIST 5.

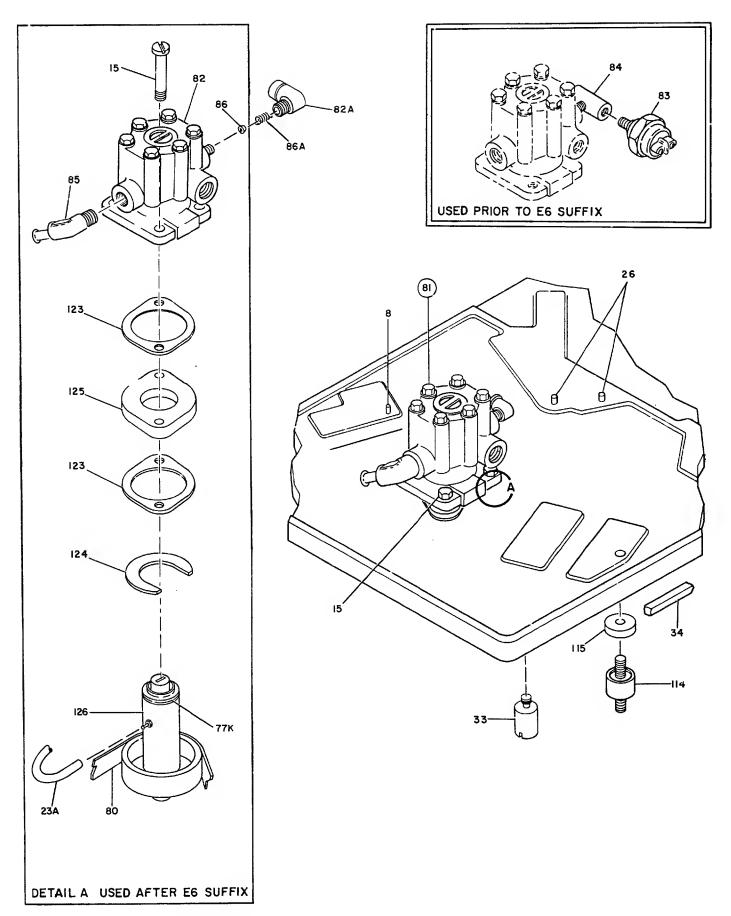


FIGURE 5. DISK STORAGE FILE ASSEMBLY. SHEET 3 OF 3. SEE LIST 5.

			2311		
		[DISK STORAGE DRIVE FILE ASSEMBLY		
_	_	1		1	ĺ
*	5 -	ļ i	CDDE A USED ON 60 CYCLE MACHINES		į.
*			CDDE B USED ON 50 CYCLE MACHINES	1	[
*		!	CODE 1 USED ON ASM PRIDE TO G5 SUFFIX	ŀ	1
*			CODE 2 USED DN ASM FROM G5 TO CURRENT		
*			CODE 3 USED ON ASM FROM G5 TO E6 SUFFIX	İ	
*			CODE 4 USED ON ASM PRIDR TO E6 SUFFIX		
*			CDDE 5 USED DN ASM FRDM E6 TD CURRENT	1	
*			CODE 6 USEO ON ASM FROM E6 TD B7 SUFFIX		
			CODE 7 USED ON ASM PRIOR TO B7 SUFFIX	1	
*		[CDDE 8 USED DN ASM FRDM 87 TO CURRENT	i	
	_]		l	
*	_	2180400	FILE ASSEMBLY, 60 CYCLE	REF	l A
			SEE LIST 1- 41 FDR NEXT HIGHER ASM.	1	l
			AND FIGURE 5 FOR ILLUSTRATION		
	_	2180860	FILE ASSEMBLY, 50 CYCLE	REF	8
		210000	SEE LIST 1- 41 FOR NEXT HIGHER ASM.	1	"
			AND FIGURE 5 FOR ILLUSTRATION		
	- 1	337	SCREW, MACH-FIL H 8-32 X 3/8 LG	4	1
	- ĪA	453	- WASHER+FL- 3/8 X 13/16 OD X 1/16 THK	3	2
	- 18	845	- SCREW, MACH-FIL H 8-32 X 1/2 LG	2	1
	- ic	3550	• WASHER, FL- 1/4 X 9/16 OD X 0.050 THK		
	- 10	4564	• NUT-AIR INTAKE	1	2
_	- 2	5528		3	5
	- 3	10170	- SCREW,MACH-8INO. HD 8-32 X 5/8 LG - SCREW-MACH,8IND HD NO. 6-32 X .250 LG	8	١,
	- 3	10170	• SCREW-MACH, 8IND HO NO. 6-32 X .250 LG	"	1
	- 4	15544		2	2
	- 4 - 4A	19852	• SCREW, MACH HEX HD 3/8-16 X 2-1/4 LG	3	4
7	- 4A - 5		- SCREW, MACH-HEX HD 1/4-20 X 1 1/4 LG	1	2
-		38235 55724	- SCREW MACH-6/32 X .310 LG	3	1
l	- 6	55726	- SCREW, MACH-BEND HD ND. 6-32 X 3/16 LG	2	.
ارا	- 7	101706	- SCREW, MACH-HEX HD 10-32 X 3/4 LG	1	1
*	- 7	129654	• SCREW, CAP, SDC HD- 10-32 X 3/4 LG	1	3
	- 8	104706	- PIN, ODWEL, 1/4 OD X 1/2 LG	1	
ایا	- 9	122740	- SCREW, CAP, SOC HD- 5/16-18 X 1 LG	3	<u>-</u>
*	- 9A	150209	• WASHER, STAR- 0.115, 0.270 M	2	1
	- 10	169733	- SCREW, CAP, SOC HO- 1/4-20 X 0.650 LG	3	
*	- 11	2121358	- SCREW, CAP, SOC HO- 4-40 X 1 LG	2	1
*	- 11	170185	- SCREW AND LCCKWASHER, 4-40 X 1 LG	2	2
_	- 12	170215	SCREW AND LOCKWASHER, 6-32 X 3/8 LG	2	
•	,,	224210	INDEXES 13 AND 14 DELETED		
*	- 14	234319	- SCREW, ASMD WASHER-FIL H 8-32 X 7/16 LG	2	2
- "	- 15	234345	- SCREW, ASMO WASHER-FIL HO 1/4-20 X 1-1/4	2	7
*	- 15	170530	- SCREW, MACH-SLOT HEX HD 1/4-20 X 1 3/4 LG	2	8
	- 16	234349	- SCREW, ASSEM WASH-HEX HD 5/16-18 X 1 LG	3	' I
- 1	- 17	236529	- SCREW, TAP, THO CTG-FLAT CSK HD 3/8 LG	2	1
	- 18	236550	- SCREW, MACH BINDING HD 4-40 X 0.375 LG	3	_ [
- []	- 18A	251970	. SCREW-MACH 80. HD. 4-40 X 1/4 LG	1	5
	- 19	257983	- WASHER, LOCK-SPLIT 0.319 ID X 0.591 OD	3	4
- []	- 19 - 19A	257983 257985	WASHER, LOCK-SPLIT 0.319 ID X 0.591 DD	6	5
- [- 20	257986	. WASHER, FLAT-ND. 4 X 0.250 DD X 0.028 THK . WASHER, FLAT NO. 6	2	1
	- 21	317464	• SCREW, CAP, SDC HO- 1/4-20 X 5/8 LG	2	1
	- 22	332620	- SCREW, MACH-BIND HO NO. 10-32 X1/2 LG	1	-
	- 23	338238	. SCREN, MACHINE-BIND HD, 4-40 X 5/16 LG	1 4	
	- 23A	359044	• TUBING		
		337011	SEE LIST 1- 22A FDR NEXT HIGHER ASM.	REF	
- 1	- 24	369207	- LABEL, VOLTAGE		- 1
	- 25	438550	. SCREW, MACH-8IND HD 4-40 X 0.5 LG	1 4	
		1073418	RING-RETAINING	3	,
- 1		1077739	· PIN, SPRING		2
		1090873	. WASHER-SPLIT LDCK-ND.8	3	, 1
		1092125	RING, LDCKING	. 6	1
		2154149	• WASHER, SOLENOID SPRING	2	,
- "		2154201	- CLAMP, CENTER ARM, SMALL	2	2
- 1		2154202	. CLAMP, CENTER ARM, LARGE	4	1
- 1		2154238	· CLAMP ARM		
- 1		2154239	· CLAMP ARM	2	
.		2154244	. CLAMP, CARRIAGE DRIVE ROO	2	
		2154251	• POST, 8ELT GUARD, 1.625 LG X 3/4 DIA	1 2	,
*		2154251	. PDST, 8ELT GUARD, 1.625 LG X 3/4 DIA		;
- 1		2154358	SEAL, SASE PLATE	1 8	2
	- 1	2154360	SPACER, MOTOR PLATE, 1.687 LG X 3/4 DIA	,	,
*		2180916	. MOUNT, SHOCK	3 3	5
		2154374	• SCREW. SOCKET HEAD CAP- 4-40 X 0.938 LG	12	١ ١
		2154418	SPRING, EXTENSION, DETENT ARM, 1.200 LG	_	, 1
*		2181186	SPRING-DETENT ARM	1	1 2
- 1		2154451	• TUBE, PRESSURE LINE	il	-
		2154453	STUD, DETENT ARM SPRING, 8-32 X 1.03 LG	1	1
		2181209	STOP-SPRING	i	2
- 1		2154457	. WASHER, FLAT, 0.312 DIA	il	-
- 1		2154459	. SPRING, COMPRESSION, 0.543 LG X 0.218DIA	i	ĺ
*	1	2154461	PIVOT, DETENT ARM, 4-40 X 1.26 LG	1	1
- 1		2157307	. TUBE, DETENT	i	1
- 1		2157340	. COVER, SLOTTED WHEEL REAR	î	- 1
- 1		2157354	. SHIM, DETENT ACTUATOR	il	l
- 1	- 46	2160717	• SUPPORT, DISK SHROUD	3	Į.
*		2160863	. BRACKET, SPINOLE BRAKE MOUNTING	íl	1
* [2160867	. BRAKE, MAGNETIC	il	i
1		2160961	- BRACKET, HEAO CABLE	il	-
_					i

INDEX NO.	PART NO.	DESCRIPTION 1 2 3 4	PER ASM.	US ABL ON CODE
		DISK STORAGE DRIVE FILE ASSEMBLY -CONT		
5 - 50	2160963	. RETAINER, HEAD CABLE SOCKET	2	
- 51	2162533	. SUPPORT, PLENUM		
- 52	2162535	. SUPPORT, PLENUM FILTER INDEXES 53 AND 54 DELETED	3	İ
- 55	2162669	. SWITCH ASM. PACK-IN-PLACE	1	1
		SEE LIST 5A FOR DETAIL BREAKDOWN		_
- 55	2181059	. SWITCH ASSEMBLY, PACK-IN-PLACE . INSULATOR-STOP KEY CONT SPRING SUPPORT	1 2	2
- 56 - 57	1974 186842	. INSULATOR-SCR 0.128 ID 0.186 0D 0.520 LG	2	3
- 58	438552	SCREW, MACH-BIND HD 4-40 X 3/4 LG	2	3
- 59	2181044	CONTACT ASSEMBLY, SPRING	1	3
- 60	2181046	TERMINAL, SWITCH	2	3
- 61 - 62	2181051 2181055	. STRAP ASSEMBLY, CONTACT	li	
		INDEXES 63 THRU 70 DELETED		
- 71	2162802	. CLAMP, HOSE	2	
- 71	4C61518	CLAMP, HOSE SUBSTITUTE FOR P/N 2162802	2	
- 72	2162872	. DETENT ASSEMBLY, ACTUATOR	1	
- 73	170176	• SCREW	4	1
	2157308	HEAD, DETENT ACTUATOR	1 i	
- 74 - 75	2154316 2154317	HOUSING, ACTUATOR DETENT PLUNGER, DETENT ACTUATOR	1	1
- 76	2154318	DIAPHRAGM, DETENT ACTUATOR	i	
- 77	2162774	PIVCT, DETENT ARM	1	١,
	2162883	SPACER , BRAKE	1 2	1
	2162884 2162886	. HUB ASMBRAKE	i	i
- 77D		WASHER+LOCK-INT TEETH NG. 6 X 0.295 OD	1	1
- 77E	1	MACHINE SCREW HEXAGON	1	1
- 77F	322552 216272B	SCREW, MACH-BINC HD 6-32 X 7/8 LG ARMATURE - BRAKE	1 1	1
	2162B7B	SPRING , HELICAL COMPRESSION	î	1
	21628B5	HUB - BRAKE	1	
	217375B	O-RING- 1.109 ID X 0.139IN. DIA CRS SECT	$\frac{1}{1}$	8
- 7B - 7B	2180410 2181274	. ACTUATOR ASSEMBLY, HYDRAULIC . ACTUATOR ASSEMBLY-HYDRAULIC	i	5
- 78	2181274	. ACTUATOR ASSEMBLY-HYDRAULIC	1	6
		SEE LIST 6 FOR DETAIL BREAKDOWN		١.
- 79	2180420	SPINDLE ASM,DISK PACK SEE LIST 7 FOR DETAIL BREAKDOWN	1	1
- 79	2181062	. SPINDLE ASM, DISK PACK	1	3
		SEE LIST 7 FOR DETAIL BREAKDOWN		
- 79	2218674	. SPINDLE ASSEMBLY	1	5
- BO	2180439	SEE LIST 7 FOR DETAIL BREAKDOWN BELT, FLAT DRIVE, 60 CYCLE	1	A
- 80	2180889	. BELT, FLAT DRIVE, 5D CYCLE	li	B
- B1	2180472	. PUMP ASSEMBLY, HYDRAULIC	1	1
	215444B	PUMP, HYORAULIC		5
- 82A - 83	2154456 2160B64	ELBGW, BRASS, .438-24 FEMALE, 250-18 MAL PRESSURE SWITCH ASSEMBLY, N/C	i	i
- 83	2181146	SWITCH, PRESSURE, N/C	1	3
- 84	2160866	TEE, MALE, 1-1/B LG	1	1
- 85 - 85	2180492 2181239	ELBOW, BRASS, .25 NPT X 1.38 LONG FITTING, ELBOW- 90 DEGREE PIPE TO TUBE	1 1	5
- 85 - 86	2181288	• • VALVE	i	5
- 86A	2181289	SPRING, HELICAL COMPRESSION	1	5
- B7	21BD478	. MOUNT, BRUSH MOTOR	1	1
- 8B	2180480	• PIVOT ASSEMBLY• BRUSH SEE LIST B FOR DETAIL BREAKDOWN	1	
- 89	2180486	. LINK ASSEMBLY, BRUSH ACTUATOR	1	1
- 90	2180491	. TUBE, .375 ID X 4.125 LONG	1	4
- 90 - 91	2181273 2180511	. TUBE-HYDRAULIC . ARM ASSEMBLY, DETENT	1	5
- 91 - 92	2180520	. CARRIAGE AND CARRIAGE HOUSING ASSEMBLY	li	1
		SEE LIST 9 FOR DETAIL BREAKDOWN	ŀ	
- 93	2180521	. COVER, SLOTTED WHEEL FRONT	1	
- 94 - 95	21BC522 2180524	SPACER, DETENT TRANSDUCER PLATE, DETENT TRANSDUCER	1 1	
- 95 - 96	2180524	PLATE, CYLINDER TRANSOUCER	i	
- 97	1	. SUPPORT-TRANSDUCER ASSEMBLY, INDEX	1	
	1	SEE LIST 12 FOR DETAIL BREAKDOWN	- 1	i

LIST AND INOEX NO.	PART ND.	DESCRIPTION 1 2 3 4	UNITS PER ASM.	US A 8 LI ON CODE
		DISK STORAGE DRIVE FILE ASSEMBLY -CONT		
* 5 - 98	2180611	. TRANSDUCER ASSEMBLY, CYLINOER	1	
	2180612	. TRANSOUCER ASSEMBLY, DETENT	1	
	2180624 2180702	. BASEPLATE, FILE . WASHER, SPRING, .126 IO x .394 00	1 4	1
	2180702	. WASHER, SPRING, .126 IO X .394 DO	8	2
	2180709 2180749	. SHIM, TRANSOUCER . CARD ASSEMBLY, READ PREAMP	AR 1	1
-103	2180749	SEE LIST 13 FOR OFTAIL BREAKOOWN	-	-
+ -103	2181149	. CARD ASSEMBLY, READ PREAMP	1	3
-103	2244049	SEE LIST 13 FOR DETAIL BREAKDDWN CARD ASSEMBLY, READ PREAMP	1	5
		SEE LIST 13 FOR OETAIL BREAKDOWN	_	
	2180752	. PDST, HEAO CABLE TERMINAL . SCREW, SELF TAPPING, 4-40 X .625 LDNG	1 2	
	2180761 2180762	. MOTOR ASSEMBLY, BRUSH PIVOT, 60 CYCLE	li	А
+ -106	2180868	. MOTOR ASSEMBLY, BRUSH PIVOT, 50 CYCLE	1	8
-107	257971	. SETSCREW, HEAOLESS . CONTACT	1 2	
-108 -109	609687 725558	• CONNECTOR	1	
-110	2180487	CRANK, BRUSH MOTOR	1	
	2180497 5102917	MOTOR, 1 RPM, 220V, 60 CYCLE MDTOR ASSEMBLY, 1 RPM, 220V, 50 CYCLE	1 1	48
	2181236	• • MDTDR-8RUSH ACTUATOR	1	58
	21807.99	. GUARO, BELT SPINOLE PULLEY	1	1
	2180835 2180916	. LABEL, SOLENDIO AND HEAD DESIGNATION . MOUNT, SHOCK	2 3	
	2180917	. SPACER. SHOCK MOUNT	3	
	2180923	. GASKET, PUMP MOUNTING SPACER	2	
	2180924 2180928	. RETAINER, PUMP DRIVE . SPACER, PUMP MOUNTING	1	7
1	4100328	. SPACER, PUMP MOUNTING	1	8
	2180930	ORIVE ASSEMBLY, HYORAULIC PUMP	1	6
1	2181270 2181276	. DRIVE ASSEMBLY, HYDRAULIC PUMP . ORIVE ASSEMBLY, HYDRAULIC PUMP	i	8
120		PARTS OF THIS ASM ARE NOT REPLACEABLE		
-136	21 900 96	INOEXES 127 THRU 133 DELETED ORIVE ASSEMBLY, MOTOR	1	
-134	2180986	SEE LIST 14 FOR DETAIL BREAKOOWN	1	
	2180988	. PULLEY, MOTOR DRIVE, 60 CYCLE	1	4A
4	2181296 2180864	. PULLEY ASSEMBLY,MOTOR ORIVE,60 CYCLE . PULLEY, MOTOR ORIVE, 50 CYCLE	1 1	5A 48
E .	2181295	. PULLEY ASSEMBLY, MOTOR ORIVE, 50 CYCLE	1	58
* -135A		. A SCREW, MACH 81NO HO 8-32 X _625 LG	1	5
1	129654 2181283	SCREW, CAP, SOC HO- 10-32 X 3/4 LG CLAMP, HU8-MOTOR	1	5
1	2181286	PULLEY, MDTDR DRIVE, 50 CYCLE	1	5A
	2181285	. PULLEY, MOTOR ORIVE, 60 CYCLE	1 1	58 4
	2180989 2180990	. SHIM, PULLEY INSULATOR . KEY, DRIVE MOTOR	i	4
* -137A	2181038	. BUSHING, LATCH BRAKE	1	2
	2181040	. LATCH, SPINDLE . LINK, CONNECTING	1 1	2
	2181042 2181052	• SPRING, COMPRESSION, •482 X 1.21 LG.	1	2
* −137E	2181053	. SPRING, COMPRESSION, .165 x 1.75 LG.	1	2
	2181054	. WASHER, TEFLDN, .391 ID X 1.00 DD . CARD ASSEMBLY, WRITE ORIVER	1 1	2
-138	2181067	SEE LIST 15 FOR DETAIL BREAKODWN	1	•
+ -138	2181213	. CARO ASSEMBLY, WRITE DRIVER	1	3
* -138	2181240	SEE LIST 15 FDR DETAIL BREAKOOWN CARD ASSEMBLY, WRITE ORIVER	1	5
	1	SEE LIST 15 FOR DETAIL BREAKDOWN		
	2181233	SHIELO, READ FREAMP	1 3	5
	2244042	SPACER, SHOCK MOUNT SPACER, SHOCK MOUNT ADAPTER	3	5
+ -142	2244046	. JUMPER ASSEMBLY, GROUNOING	i	5
		SEE LIST 19- 3E ANO - 3F		
* -143	2244205	FDR CDMPONENT PARTS OECAL, CYLINDER TRANSDUCER	1	8
+ -144	NO NO.	. CABLE CLAMP, SEE LIST 19-1	1	

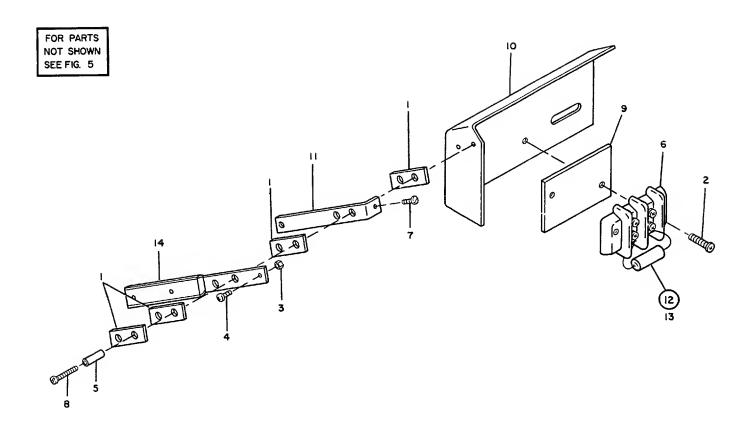


FIGURE 5A. PACK-IN-PLACE SWITCH ASSEMBLY. SEE LIST 5A.

LIST AND INGEX NO.	PART NO.	OESCRIPTION 1 2 3 4	UNITS PER ASM.	USABLE ON COOE
NO. - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12			1	

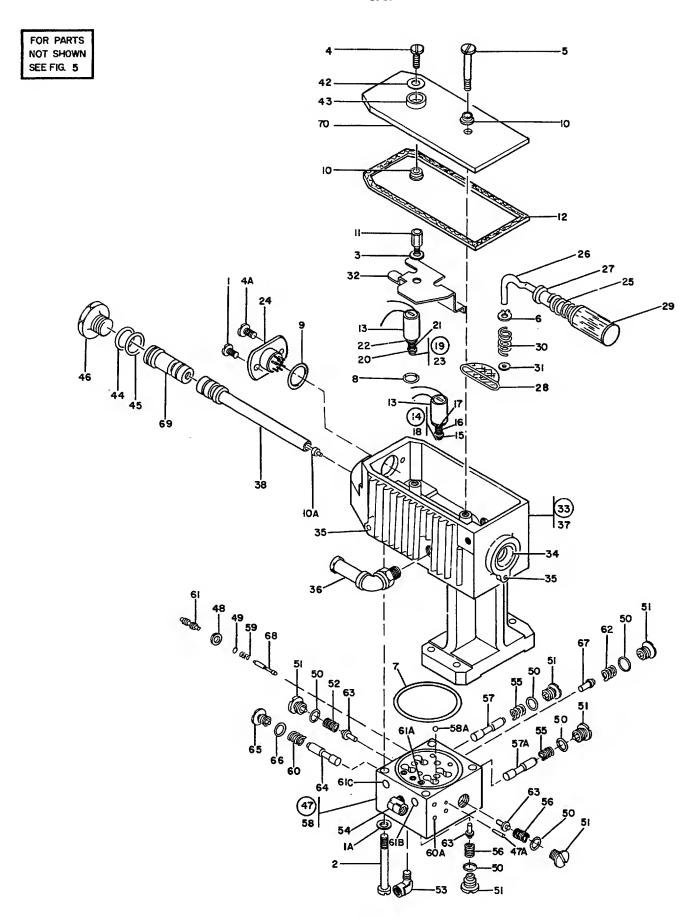


FIGURE 6. HYDRAULIC ACTUATOR ASSEMBLY. SEE LIST 6.

	LIST AND INDEX	PART	DESCRIPTION	PER	US ABLE ON
	NO.	NO.	1 2 3 4	ASM.	COOE
			HYDRAULIC ACTUATOR ASSEMBLY		
* * * * * *	6 -		CODE 1 USED ON ASM PRIOR TO E5 SUFFIX CODE 2 USEO ON ASM FROM E5 TO H5 SUFFIX CCOE 3 USEO CN ASM FROM E5 TO E6 SUFFIX CCOE 4 USEO ON ASM FROM E5 TO CURRENT CODE 5 USEO ON ASM PRIOR TO H5 SUFFIX CODE 6 USEO ON ASM FROM H5 TO CURRENT CODE 7 USEO ON ASM FROM E6 TO CURRENT		,
*	- -	2180410	ACTUATOR ASSEMBLY, HYORAULIC USEO ON MACHINES PRIOR TO E6 SUFFIX SEE LIST 5- 78 FOR NEXT HIGHER ASM.	REF	
*	-	2181274	AND FIGURE 6 FOR ILLUSTRATION ACTUATOR ASSEMBLY-HYDRAULIC USED ON MACHINES FROM E6 TO CURRENT SEE LIST 5- 78 FOR NEXT HIGHER ASM. AND FIGURE 6 FOR ILLUSTRATION	REF	
* * *	- 1 - 1A - 1A - 2 - 2 - 3	45690 322562 186934 257986	. SCREW, MACH-8INO HO NO 6-32 X 3/8 LG . WASHER-LOCK, SPLIT RING, .194 ID .33700 . WASHER, FL - NO.10 X 7/16 00 X 1/32 THK . SCREW, BINDING HEAD 10-32 X 2 IN LONG . SCREW, CAP-HEX SOCKET, 10-32 X 2.00 IN. LG . WASHER, FL - NO. 6 X 0.312 00	1 4 4 4 1 1	2 6 1 4
	- 4 - 4A - 5 - 6 - 7 - 8 - 9	436568 1115633 2121754 2154120 2154132	• SCREW, MACH-BINO HO 6-32 X 5/8 LG • SCREW, MACH-BINO HO ND. 6-32 X 1/2 LG • SCREW, MACHINE BINOING HEAD • RING, RETAINING • O RING, 2-309 OD • O-RING, 0-301 IO • O-RING, 0-750 IO	1 1 1 1 1 2	
	- 10 - 10A - 11 - 12 - 13 - 14 - 14	2154138 2154140 2154143 2154145 2154153 2157356 2181076	OYNA-SEAL, SUMP COVER BALL CLAMP, CARRIAGE COUPLER CREW, SUMP DEFLECTOR MOUNTING GASKET, HYDRAULIC ACTUATOR SUMP COVER SOLENDID ASSEMBLY PLUNGER ASSEMBLY, FWO, SLOW, DETENT SOL PLUNGER ASSEMBLY, FWO S/O DETENT SOLENDIO	1 1 5 4 1	1 2
	- 14 - 15 - 16	2181173 1073418 2154148	PLUNGER ASSEMBLY-SOLENDIO RING, RET-0.094 IO X 0.230 OO SPRING, COMPRESSION, 0.838 LG X 0.1600IA USEO ON ASM 2157376 ONLY SPRING	1 1 1	6
•	- 16 - 16	2181075	USEO ON ASM 2181076 ONLY SPRING-COMPRESSION, SOLENDIO PLUNGER USEO ON ASM 2181173 ONLY	1	
* *	- 17 - 18 - 18	2154149 2154150 2181172	WASHER, SOLENDID SPRING PLUNGER, FORWARD, SLOW, DETENT SOLENDID USED ON ASM 2157376 AND 2181076 ONLY PLUNGER-SOLENDID	1	
*	- 19 - 19 - 20	2181216 1073418	USEO ON ASM 2181173 ONLY • PLUNGER ASSEMBLY EXTEND SOLENOIO • PLUNGER ASSEMBLY—EXTENDER SOLENOIO • RING, RET— 0.094 IO X 0.230 OO • SPRING, COMPRESSION, 0.350 LG X 0.1700IA	1 1 1 1 1	
* *	- 21 - 21	2154147	USEO ON ASM 2157361 ONLY PLUNGER ASSEMBLY-EXTENDER SOLENDIO USEO ON ASM 2181216 ONLY WASHER, SOLENDIO SPRING	1	
•	- 22 - 23 - 24 - 24 - 25 - 26	2154124 2180419 2180424	PLUNGER, EXTENO SOLENOIO . BLOCK ASSEMBLY, SOLENOIO TERMINAL . BLOCK ASSEMBLY, SOLENOIO TERMINAL . SPRING, COMPRESSION, .457 x .700 LONG . TUBING, HYDRAULIC	1 1 1 1 1 1	5
	- 27 - 28 - 29 - 30 - 31 - 32	2180429 2180430 2180432 2180465 2180468 2180763	. BUSHING, ALUMINUM, .363 X .87 LONG . SCREEN, SUMP . ELEMENT, HYORAULIC DIL FILTER . SPRING, COMPRESSION, .225 X 1.3 LONG . VALVE, FILTER PRESSURE RELIEF . DEFLECTOR, SUMP	1 1 1 1 1 1	
*	- 32 - 33 - 34 - 35 - 36 - 36	2180765 2121517- 2180423 2180431	. HOUSING ASSEMBLY, HYORAULIC ACTUATOR . SEAL, WIPER, .335 IO X .883 OO . 8ALL, .19685 SPHERICAL OIA CONNECTOR, TUBING, .250-18 X 1.8I LONG . CONNECTOR, SUCTION LINE SUMP	1 1 4 1	1 3
*		2181239 2180764	FITTING, ELBOW- 90 DEGREE PIPE TO TUBE HOUSING, HYORAULIC ACTUATOR	1	

		ANO			UNITS	USABLE
Į		DEX	PART NO.	1 2 3 4	PER ASM-	CODE
				HYDRAULIC ACTUATOR ASSEMBLY -CONT		
	6 -	- 38	2180768	- ROO ASSEMBLY, CARRIAGE DRIVE PARTS OF THIS ASM ARE NOT REPLACEABLE	1	
-	_	- 42	2180769	INDEXES 39 THRU 41 DELETED . WASHER, SUMP RELIEF	.	
		- 43	2180771	- BREATHER, SUMP RELEIF	1 1	
		- 44	2180772	• O RING, RUBBER, •644 ID	i	1
		- 45 - 46	218C773 218C774	- PACKING, U-CUP - CAP, REAR	1	
*		- 47	2180776	. BLOCK AND PLUG ASSEMBLY, ACTUATOR	1 1	5
*		47	2181185	- MANIFOLD ASM-HYDRAULIC ACTUATOR	i	6
		- 47A - 48	4327 257187	• PIN, TAPER NO. 5-0 X .562 LG	1	
- 1		49	357419	NUT, HEX DDUBLE CHAMFERED 6-36 X 5/16 O-RING	1 1	
		50	2154120	D-RING, 0.301 ID	6	
		· 51 · 52	2154121 2154130	. STOP, VALVE SPOOL, LOWER	6	
		53	2154133	• SPRING, COMPRESSION, 0.913 LG X 0.21001A • ELBOW, BRASS, 0.438-24 X 0.55 00	1	
- 1		- 54	2154134	. ELBOW, BRASS, 0.375-24 X 0.50 DD	1 1	
	-	55	2154136	SPRING, COMPRESSION, 0.710 LG X 0.218DIA	2	
	-	55	2181182	USED ON ASM 2180776 DNLY • SPRING-FDRWARD		
				USED DN ASM 2181185 ONLY	2	
	-	56	2154141	SPRING, COMPRESSION, 0.934 LG X 0.21001A	2	
	~	56	2154130	USED DN ASM 2180776 ONLY - SPRING, COMPRESSION, 0.913 LG X 0.210DIA	_	
		20		USED DN ASM 2180776 DNLY	2	
	-	57	2154146	SPDCL, SLOW, FORWARD VALVE	1	
1	_	57	2181177	USEO ON ASM 2180776 DNLY • SPDDL.INTERMEDIATE SPEED		
			2101111	USEO DN ASM 2181185 ONLY	1	
*	-	57A	2154146	• • SPOOL, SLOW, FORWARD VALVE	1	1
	_	57 A	2181074	USED DN ASM 2180776 DNLY • SPOOL, VALVE-FWD REV	1 1	
		, i M		USEO DN ASM 2180776 DNLY	1	4
	-	57A	2181178	• • SPOOL, VALVE-FWO REV	1	
	_	58	2180413	USED DN ASM 2181185 DNLY		
			2180415	BLOCK, VALVE BALL-CHECK	1	
		59	2180417	SPRING, COMPRESSION, .097 X .450 LONG	$\begin{vmatrix} 1\\1 \end{vmatrix}$	1
	_	59	2181184	USEO ON ASM 2180776 ONLY • SPRING-SPODL		
				USED DN ASM 2181185 DNLY	1 1	
		60	2180421	SPRING, COMPRESSION, -178 X 1.00 LONG	1	
		60A	2180423 2180425	BALL, .19685 SPHERICAL DIA. SCREW, ADJUSTING	6	
			2180426	SCREN, ADJUSTING NSERT-VALVE	1 4	
	-	618	2180427	• • SPOOL-VALVE	1	1
	_	61 R	2181175	USEO ON ASM 2180776 ONLY • STDP, VALVE-FORWARD	i	
		010	2101117	USED ON ASM 2181185 ONLY	1	
١	-	61C	2180427	SPODL-VALVE	1	ļ
1	_	610	2131174	USEO DN ASM 2180776 ONLY		1
1	_	010	2101114	- STOP, VALVE-INTRMOTE USED ON ASM 2181185 DNLY	1	- 1
	-	62	2180467	• • SPRING, COMPRESSION, •225 X 1.06 LDNG	1	ļ
	_	62	2181183	USED DN ASM 2180776 ONLY	1 1	1
	_	VΖ	2101103	SPRING-VALVE USED ON ASM 2181185 ONLY	1	l
1		63	2180760	VALVE, CHECK	3	
	-	64	2180785	VALVE, DUMP SPODL	1	1
	_	64	2181181	USED DN ASM 2180776 DNLY - VALVE ASSEMBLY-DUMP		-
-				USED ON ASM 2181185 ONLY	1	- 1
1			2180786	STOP, DUMP VALVE SCREW	1	
			2180793 2180925	SEAL, RUBBER, .280 1D, .52 DD VALVE, PRESSURE RELIEF	1	
				USED DN ASM 2180776 DNLY	1	
	-	67	2180760	• VALVE-CHECK	1	1
	_	68	2180932	USED ON ASM 2181185 ONLY		1
-			2180777	SPOOL, ORIFICE SIZE0102 AND .0210 . PISTON, HDME AND EXTENDED	1 1	Į
1	-	70	2180778	. COVER, HYDRAULIC ACTUATOR	1	İ
		ļ			-	
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		-				1
L		1	· · · · · · · · · · · · · · · · · · ·			

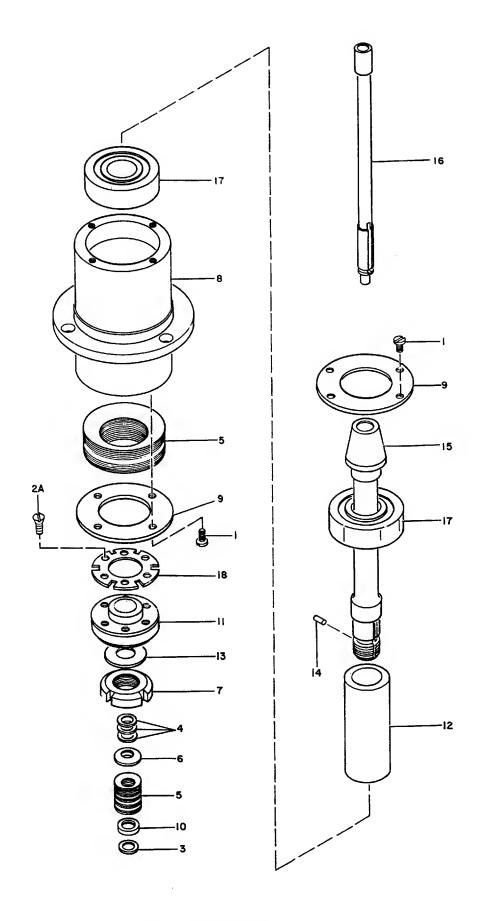


FIGURE 7. DISK PACK SPINDLE ASSEMBLY. SEE LIST 7.

	LIST AND INDEX NO.	PART ND-	DE SCRIPTION	UNITS PER ASM•	USA8LE ON CDDE
*	7 -		DISK PACK SPINDLE ASSEMBLY CODE A USED DN MACH. PRIDR TO D5 SUFFIX		
*			CODE 8 USED DN MACH. FROM D5 TD E6 CODE C USED DN MACH. FROM E6 TD CURRENT		
	<u>-</u>	2180420	SPINDLE ASM, DISK PACK SEE LIST 5- 79 FDR NEXT HIGHER ASM.	REF	A
	-	2181062	AND FIGURE 7 FOR ILLUSTRATION SPINDLE ASM, DISK PACK SEE LIST 5- 79 FOR NEXT HIGHER ASM.	REF	8
	-	2218674	AND FIGURE 7 FOR ILLUSTRATION SPINDLE ASSEMBLY SEE LIST 5- 79 FOR NEXT HIGHER ASM.	REF	С
	- 1	34512	AND FIGURE 7 FDR ILLUSTRATION SCREW.MACH-8IND. HD 8-32 X 3/8 LG	8	
	- 2A	316807 2181010 2154355	INDEX 2 DELETED • SCREW, MACH FL HD 6-32 X 3/8 LG • SCREW, FLATHEAD UNDERCUT, 6-32 X .437 • RING, RETAINING	6 6 1	8 C
	- 5	2154419 2154423 2154424	- SHIM, DISK PACK SPINDLE - SPRING, DISK SPINDLE BEARING - SPRING, DISK PACK LDCKING SHAFT	9 6	
	- 7 - 8	2154426 2154429 2154430	LDCKNUT, DISK PACK SPINDLE HOUSING, DISK PACK SPINDLE	10 1	
	- 10 - 11	2154469 2180408	RETAINER, STEEL, 3/4 OD X 1/2 ID PULLEY, DISK PACK	2 1 1 1	Α
ĺ	- 11 - 12	2181056 2218673 2180548	PULLEY, DISK PACK CORR. DUTLET- 50 CY REAR QUAD DR. FEAT. SPACER, BEARING, 1.50 DD X 3.755 LDNG		B C
	- 14 - 15	2180779 2180787 2180789	- WASHER, FIBER, 1.175 ID X 1.80 DD - PIN, SPINDLE DRIVE - SPINDLE, DISK PACK	1 1 1	
	- 16 - 16	2180792 2181058 2181058	LDCKING SHAFT ASSEMLBY SHAFT ASSEMBLY, LOCKING SHAFT ASSEMBLY, LOCKING	1 1 1	A 8 C
	- 18	2180798 2181041 2181041	SEARING, SALL, 1.18 ID, 2.44 OD WHEEL, LOCK WHEEL, LOCK	2 1 1	B C
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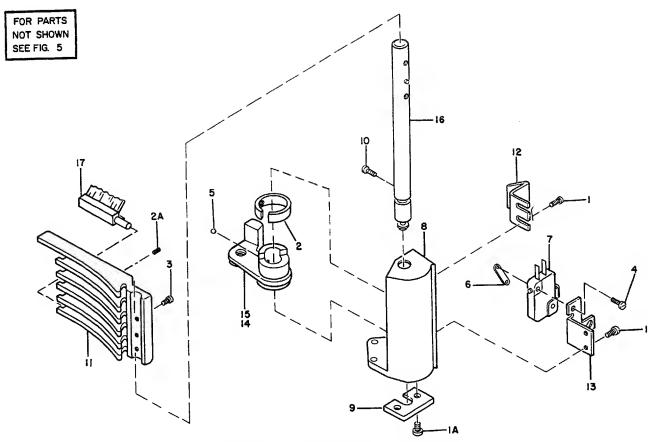


FIGURE 8. BRUSH PIVOT ASSEMBLY. SEE LIST 8.

	LIST AND INDEX NO.	PART NO.	OE SCRIPTION 1 2 3 4	UNITS PER ASM•	USA8LE ON COOE
			8RUSH PIVOT ASSEMBLY		
* *	8 -		CODE 1 USEO ON ASM PRIOR TO P5 SUFFIX CODE 2 USEO ON ASM FROM P5 TO CURRENT CODE 3 USED ON ASM PRIOR TO P6 SUFFIX CODE 4 USED ON ASM FROM P6 TO CURRENT		
•	_	2180480	PIVOT ASSEMBLY, BRUSH SEE LIST 5- 88 FOR NEXT HIGHER ASM. AND FIGURE 8 FOR ILLUSTRATION	REF	
	- 1 - 1 - 1A	10170 10170 81693	SCREW-MACH, BIND HO NO. 6-32 X .250 LG SCREW-MACH, BIND HD NO. 6-32 X .250 LG SCREW, MACH-BIND HD 6-32 X 3/8 LG CLIP-RET	6 4 2 1	1 2 2
*	- 2 - 2A	237245 257958 322065	SETSCREW-SPLINE DR FP 4-40 x 3/16 LG SEE LIST 1- 18 FOR NEXT HIGHER ASM. SCREW, MACH-BIND HD 6-32 x 5/8 LG	REF	
	- 3 - 4 - 5	438551 1124682	SCREW, MACH-BIND HO 4-40 X 5/8 LG BALL, COMPENSATOR, S ST, 0.18750 DIA PLATE, SECTOR PULSE SWITCH	1 1	
*	- 10	2157349 2244026 2162551 2180479 2180484 2180898	PLATE, NUT, SECTOR SWITCH SWITCH, SECTOR BLOCK SUPPORT, BRUSH PIVOT SHAFT RETAINER, BRUSH PIVOT SHAFT SCREW, BRUSH ARM STOP	1 1 1 1	4
	- 12 - 13 - 14 - 15	2180903 2180904 2180905 2180906 2180907	. HOLDER, BRUSH . BRACKET, BRUSH HOLDER STOP . BRACKET, SWITCH . ARM, BRUSH PIVOT . SPRING, DETENT	1 1 1 1 1 1	
*	- 16 - 17	2180909 2180499	SHAFT ASSEMBLY, BRUSH PIVOT BRUSH ASSEMBLY, DISK PACK SEE LIST 1- 45 FOR NEXT HIGHER ASM.	REF	

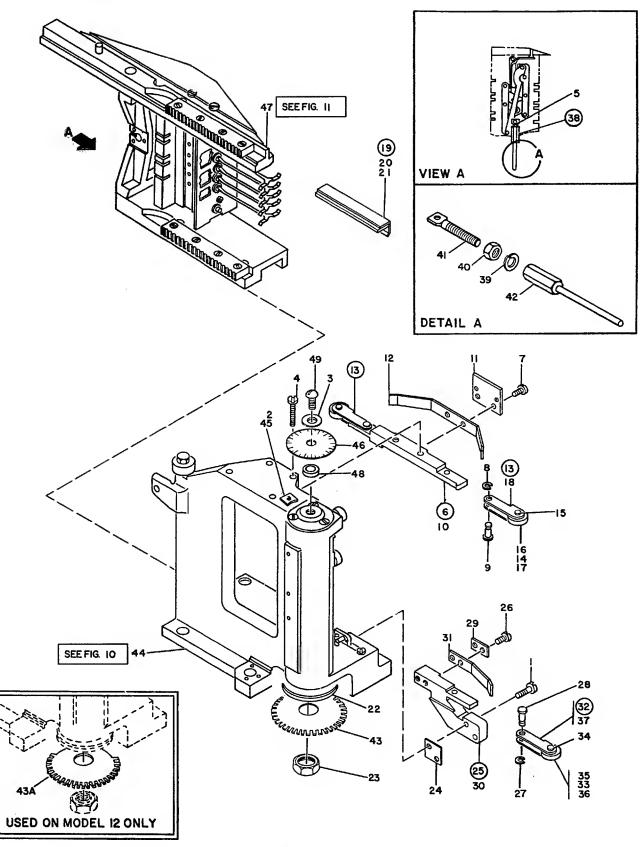


FIGURE 9. CARRIAGE AND CARRIAGE HOUSING ASSEMBLY. SEE LIST 9.

	LIST AND INDEX NO.	PART NO.	OESCRIPTION 1 2 3 4	UNITS PER ASM.	US ABL ON COOE
			CARRIAGE AND CARRIAGE HOUSING ASSEMBLY.		
	9 -		CODE A USEO ON MODELS 1 AND 11 CODE B USEO ON MODEL 12 CODE 1 USEO ON ASM PRIOR TO B6 SUFFIX		
			COOE 2 USEO ON ASM FROM B6 TO CURRENT CODE 3 USEO ON ASM PRIOR TO B7 SUFFIX COOE 4 USEO ON ASM FROM B7 TO CURRENT		
•	-	2180520	CARRIAGE AND CARRIAGE HOUSING ASSEMBLY SEE LIST 5- 92 FOR NEXT HIGHER ASM. AND FIGURE 9 FOR ILLUSTRATION	REF	
	- 1 - 2	552B 38235	SCREW, MACH-BINO. HO B-32 X 5/B LG SCREW, MACH-FIL H 6-32 X 5/16 LG	2 1	
:	- 3 - 3	1207B9 3550	. WASHER, FL-NO. 10 X 3/4 00 X 0.046 THK . WASHER, FL- 1/4 X 9/16 00 X 0.050 THK	1 1	1 2
	- 4	32 2065	. SCREW, MACH-BINO HO 6-32 X 5/B LG	2	-
۱	- 5 - 6	107341B 2154304	RING, RET- 0.094 IO X 0.230 DO ROLLER ASSEMBLY, CARRIAGE UPPER	1 1	
-	- 7	35739	. SCREW, MACH-BIND HO NO. 6-32 X 15/16 LG	2	
١	- B	107341B 2154339	. RING, RET - 0.094 IO X 0.230 00 . PIVOT, ROLLER YOKE	2	
1	-	2154342	ARM, UPPER RAIL ROLLER	2	1
1		2157330	. PLATE, ROLLER YOKE	1	1
İ		2160B94 2160B93	SPRING, UPPER ROLLER YOKE YOKE ASSEMBLY, CARRIAGE RAIL ROLLER	2	
I	- 14	233355	BEARING, BALL, PLAIN 3/16 IO X 1/2 00	2 2	
١		2154337 215433B	PIN, CARRIAGE RAIL ROLLER SHIM, CARRIAGE RAIL ROLLER	2 2	
l		2157327	• • ROLLER, SPRING CONTACT	2	
I		2160918 2157302	YOKE, CARRIAGE RAIL ROLLER RETAINER ASSEMBLY, RACK LUBRICATOR	2 2	[
l	- 20	2157303	FELT, RACK LUBRICATOR	1	
١		2157304 2157343	. RETAINER, RACK LUBRICATOR . SPACER, TRACK POSITION DISK	1 1	
ı		2157344	. LOCKNUT, TRACK POSITION DISK	li	
1		2160764	. SHIM, LOWER ROLLER	2	
١	- 25 - 26	2160B90 35739	ROLLER ASSEMBLY, CARRIAGE LOWER SCREW, MACH-BINO HO NO. 6-32 X 15/16 LG	1 2	
ı		1073418	RING.RET- 0.094 IO X 0.230 OC	1	l
1		2154339 2154344	PIVOT, ROLLER YOKE CAP, ROLLER SPRING	1 1	ļ
I	- 30	2160891	ARM, LOWER RAIL ROLLER	1	
١	- 31 - 32	2160B92 2160B93	SPRING, LOWER ROLLER YOKE YOKE ASSEMBLY, CARRIAGE RAIL ROLLER	1	
١	- 33	233355	BEARING, BALL, PLAIN 3/16 IO X 1/2 00	i	
١		2154337 215433B	PIN, CARRIAGE RAIL ROLLER	1	
l		2157327	SHIM, CARRIAGE RAIL ROLLER ROLLER, SPRING CONTACT	2	
1	- 37	216091B	YOKE, CARRIAGE RAIL ROLLER	2	
1	The state of the s	2162747 2181347	. ROO ASSEMBLY, AOJ HEAO LOAO LATCH PUSH . ROO ASSEMBLY, AOJ HEAO LOAO LATCH PUSH	1 1	3 4
1	- 39	6364	WASHER, LOCK-SPLIT NO. 6 x 1/4 DO	1	3
I	- 40	38051	USEO ON ASM 2162747 ONLY NUT, PLAIN, HEX- 6-32 X 1/4 FL W	1	
	- 41	216274B	- • SCREW, 6-32 ADJUSTING	1	
	- 42	2162749	NUT.ROO ADJUSTABLE USED ON ASM 2162747 ONLY	1	3
	- 42	221 863 6	. NUT, ROO ACJUSTABLE USED ON ASM 2181347 ONLY	1	4
		2180464	. DISK, TRACK POSITION	1	A
-		2181257 2180501	. DISK,TRACK POSITION-MOD 12 . HOUSING ASSEMBLY, CARRIAGE	1	В
l			SEE LIST 10 FOR DETAIL BREAKDOWN		
ļ		2180503 2180505	- PLATE, TRACK INDICATOR - COUNTER, TRACK	1	
1		2180510	. CARRIAGE ASSEMBLY, 10 HEAD	i	
	- 4B	2180528	SEE LIST 11 FOR OETAIL BREAKOOWN		
		2180528 2180701	- SPACER, STEEL, .19100 X .50000 X .105 TH - SCREW, BUTTON HEAD, 10/32 X 1/2 LONG	1 1	
	- 49	2180701	. SCREW, BUTTON HEAD, 10732 X 172 LUNG		

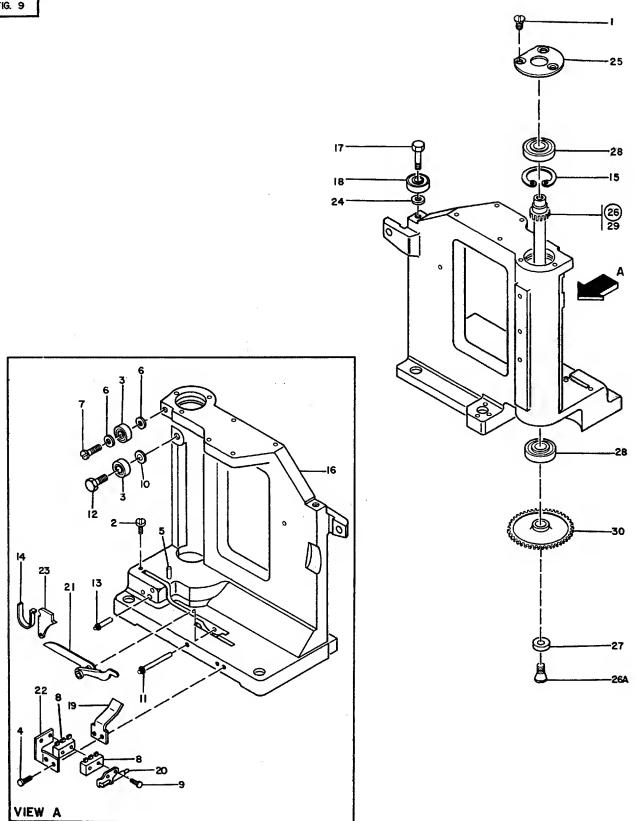


FIGURE 10. CARRIAGE HOUSING ASSEMBLY. SEE LIST 10.

	LIST AND INDEX	PART ND.	DESCRIPTION 1234	UNITS PER ASM.	USABLE DN CDDE
• • • •	INDEX ND. 10 - - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25	ND. 2180501 38442 48594 233355 251970 255886 322550 355343 438543 597044 2154301 2154306 2154306 2154307 2154328 2154329 2154330 2154330 2154331 2181324 2154332 2154332	CARRIAGE HDUSING ASSEMBLY. CODE 1 USED DN ASM PRIDR TO B7 SUFFIX CODE 2 USED ON ASM FROM B7 TO CURRENT HOUSING ASSEMBLY, CARRIAGE SEE LIST 9- 44 FDR NEXT HIGHER ASM. AND FIGURE 10 FDR ILLUSTRATION SCREW, MACH-BIND HD NO. 4-40 X 0-175 LG SCREW, MACH-BIND HD NO. 4-40 X 0-175 LG SCREW, MACH, BIND HD-ND. 4-40 X 1/4 LG ROLL PIN WASHER,FL- ND. 6 X 0.312 DD SCREW, MACH-BIND HD ND. 6-32 X 1/2 LG SWITCH, PRECISION SCREW, MACH, BIND. HD 2-56 X 5/8 LG CDLLAR, MTG- GATE SUPPORT PIVDT, ARMATURE, PAWL, 1.66 LG STUD, CARRIAGE GUIDE ROLLER PIVDT, CAM LATCH SPRING, CAM LATCH SPRING, CAM LATCH CRING, CAMIAGE GUIDE ROLLER BEARING, CARRIAGE GUIDE ROLLER STUD, CARRIAGE GUIDE ROLLER SPING, HEAD LOAD CAM SWITCH ACTUATOR, HEAD LOAD CAM SWITCH CAM, HEAD LDAD CAM, HEAD LDAD CAM, HEAD LDAD CAM, HEAD LDAD CAM SPACER, 0-203 ID X 0-43B DD RECTAINER, BEARING	PER ASM. REF 3 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DN
	- 26 - 26A - 27 - 28 - 29	2180443 99 2154348 2154349 2154352 2180444	SHAFT ASSEMBLY, DETENT AND TRACT PDS. SCREW, MACH-FL CSK HD 10-32 X 3/8 LG WASHER, 1/2 DD X 1/4 ID BEARING, TRACK PDSITION SHAFT SHAFT, DETENT AND TRACK PDSITION GEAR, DETENT	1 1 1 2 1 1	

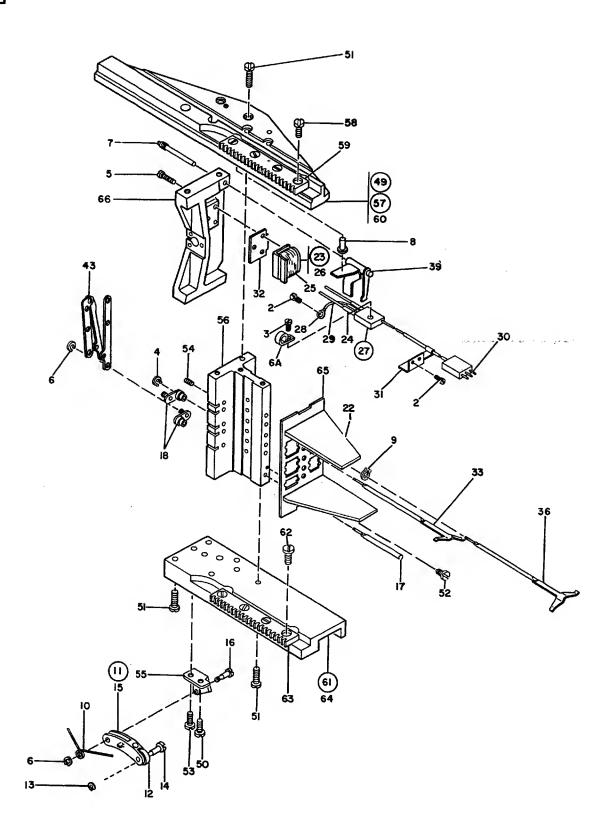
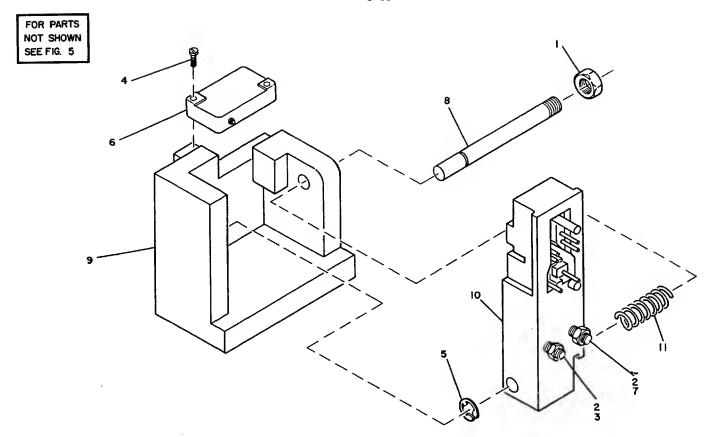


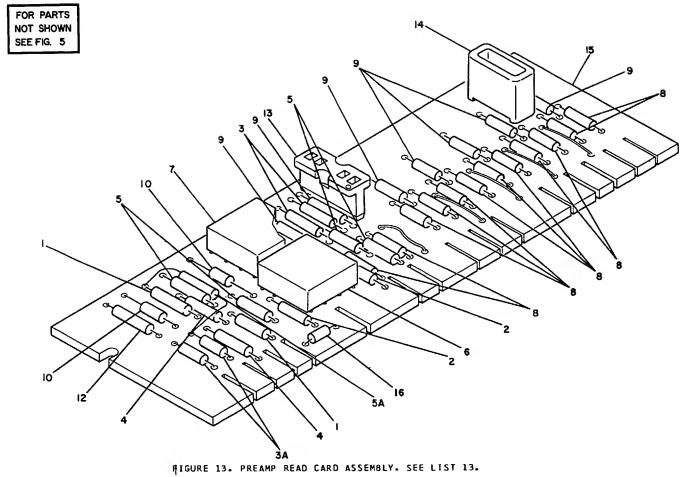
FIGURE 11. 10 HEAD CARRIAGE ASSEMBLY. SEE LIST 11.

		10 HEAD CARRIAGE ASSEMBLY.			
ıı -		CCOE 1 USEO ON ASM FROM E5 TO CURRENT		1	[
``		CODE 2 USEO ON ASM PRIOR TO H5 SUFFIX			i
		CODE 3 USED ON ASM FROM H5 TO CURRENT			!
		CODE 4 USED ON ASM PRIOR TO A6 SUFFIX			l
		CODE 5 USED ON ASM FROM A6 TO CURRENT			1
		CDOE 6 USED ON ASM PRIOR TO B7 SUFFIX COOE 7 USEO ON ASM FROM B7 TO CURRENT			Ì
	_	-		0.55]
-	218051D	CARRIAGE ASSEMBLY, 10 HEAD SEE LIST 9- 47 FOR NEXT HIGHER ASM.		REF	
		AND FIGURE 11 FOR ILLUSTRATION			
- 1	10170	. SCREW, MACH-BIND HD 6-32 X 1/4 LG		4	İ
- 2	48594	. SCREW, MACH-BIND HD NO. 4-40 X 0.175 LG		3	Ι.
- 3	251970	. SCREW-MACH BO. HO. 4-40 X 1/4 LG		1	4
- 3	438548	. SCREW, MACH-BIND HD 4-40 X 3/16 LG		1 1	5
- 3	438548	• SCREW, MACH-BINO HO 4-40 X 3/16 LG • RING, RETAINING		6	١ -
- 4 - 5	2519B9 43B549	SCREW, MACH-BIND HO 4-4D X 7/16 LG		3	
	1D73418	. RING, RET- D.094 IO X 0.230 00		7	
	2122639	. CLAMP-CABLE		1	1
- 7	2154204	. PIVOT, ARMATURE, PAWL, 1.66 LG		1	
	21542D7	. PLUNGER, HEAD LOAD		1	
	21542DB	RING, RETAINING, HEAD LOAD BAR		12	
	2154212 2154255	. SPRING, TORSION . FOLLOWER ASSEMBLY, HEAD LDAD CAM		l i	6
	2181329	. FOLLOWER ASSEMBLY, HEAD LOAD CAM		ī	7
- 12	437131	ROLLER, TRAVERSE CARRIAGE SUPPORT		1	6
	2181326	ROLLER, HEAD LOAD		1	7
_	1D7341B	. RING, RET- D.094 ID X 0.230 JD		1	
	2154203	PIN, HEAD LOAD CAM FOLLOWER ROLLER		1	1
	2154256	FOLLOWER, HEAD LOAD CAM FOLLOWER HEAD LOAD CAM		1 1	6
	21B1325 215426B	. PIN, HEAD LOAD CAM FOLLOWER, 0.125 OIA		i	'
	2154268	. ROO, HEAD LOAD-OUMMY	C C	i	
	2154659	. LEVER ASSEMBLY, HEAD LOADING		6	
		PARTS OF THIS ASM ARE NOT REPLACEABLE			
		INDEXES 19 THRU 21 DELETED			
	2162532	- PAO, HEAD LOAD		2	1
- <u>23</u> - 24	2180445 441218	MAGNET ASSEMBLY, HEAD LOAD LATCH TUBING		2	
- 25	620093	. COIL ASSEMBLY, 646 DHM - 790 DHM RES.		ī	
	2180446	CDRE AND MOUNT ASSEMBLY		1	Ì
- 27	2162569	CABLE ASSEMBLY, HEAD LATCH SOLENOID		1	1
- 2B	124440	CLIP		1 1	
	2103416	TUBING, INSULATING CONTACT, SINGLE WIRE		3	1
	2154243 2162539	CLIP, HEAD LATCH SOLENOID CABLE		í	1
	21BD447	. PLATE, MAGNET		1	1
	2180451	. ROD ASSEMBLY, TORSION, A-UP B-OOWN		2	2
- 33	21B1194	. ROD ASSEMBLY, TORSION, A-UP B-DOWN		1	3
	1	PARTS OF THIS ASM ARE NOT REPLACEABLE			1
_ 2/	2100452	INDEXES 34 AND 35 DELETED ROD ASSEMBLY, TORSIDN, A-DOWN B-UP		3	2
	21BD452 21B1195	. ROD ASSEMBLY, TORSTON, A-DOWN B-UP		1	3
טכ		PARTS OF THIS ASM ARE NOT REPLACEABLE		1	
		INDEXES 37 AND 3B DELETED			
- 39	2180455	. PAWL ASSEMBLY, HEAD LOAD		1	1
		PARTS OF THIS ASM ARE NOT REPLACEABLE			
- 43	2180442	INDEXES 40 THRU 42 DELETED LINK ASSEMBLY, HEAD LOAD LATCH		1	ĺ
- 43	2180462	PARTS OF THIS ASM ARE NOT REPLACEABLE		1	
		INDEXES 44 THRU 4B DELETED			1
- 49	2180675	. RECEIVER ASSEMBLY, CARRIAGE	C C	1	
- 5D	B1693	SCREW, MACH-BIND HO NO 6-32 X 3/B LG		1	
- 51	186758	SCREW, MACH-BIND HD B-32 X 7/16 LG		12	
- 52	186923	SCREW, MACH_BIND HD 4-4D X 0.25D LG		3	
- 53 - 54	322065 2154209	SCREW, MACH-BIND HD 6-32 X 5/B LG SCREW, HEADLESS SET, NO. B-32 X 3/B LG		10	
- 54 - 55	2154209	. MOUNT, HEAD LOAD CAM FOLLOWER		1	
- 56	2154237	RECEIVER, CARRIAGE ASSEMBLY	•	1	
- 57	215425B	RAIL ASSEMBLY, TOP		1	1
- 58	B1693	SCREW, MACH-BIND HO NO 6-32 X 3/B LG	_	4	
- 59	2154231	RACK, CARRIAGE ORIVE GEAR		1	
- 6D	2154233	RAIL, CARRIAGE TOP RAIL ASSEMBLY, BOTTOM	о С	1 1	1
- 61 - 62	2154259 B1693	SCREW, MACH-BIND HD NO 6-32 X 3/B LG	_	4	1
- 63	2154231	RACK, CARRIAGE ORIVE GEAR	п	i	1
- 64	2154234	RAIL, CARRIAGE BOTTOM	Ω	1	
	2162556	COMB, ARM FRONT		1 1	Į
- 65 - 66	21BD5D2	COUPLER, CARRIAGE DRIVE			



#IGURF 12. INDEX TRANSDUCER AND SUPPORT ASSEMBLY. SEE LIST 12.

ſ			TAIDEN TO ANEDHEED AND CHRODOT ACCENSIV		1
			INDEX TRANSDUCER AND SUPPORT ASSEMBLY		
*	12 -	2180531	SUPPORT-TRANSDUCER ASSEMBLY, INDEX SEE LIST 5- 97 FOR NEXT HIGHER ASM.	REF	
*	- 1	11598	AND FIGURE 12 FOR ILLUSTRATION NUT,PLAIN,HEX- 10-32 X 3/8 FL W	1	ľ
	- 2	257189	. NUT, HEX., 8-32 X 0.3438 W	2	
	- 3 - 4	314372 438551	. SCREW, HEADLESS SET, 8-32 NC X 1.// LG. . SCREW,MACH-8IND HD 4-40 X 5/8 LG	1 2	
	- 5	1092125	. RING, LDCKING	1	
- 1		2162551 2162699	. SWITCH, SECTOR BLOCK . PLUNGER, SWITCH	1	
	- 8	2180525	. PIN, INDEX PULSE PIVOT	1	
		2180527 2180613	• SUPPORT, INDEX TRANSDUCER • TRANSDUCER ASSEMBLY, INDEX	1	
	~ 11	2180625	• SPRING, DDUBLE ACTING	1	
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		PREAMP READ CARD ASSEMBLY		
13 -		CDDE A USED ON ASM PRIOR TO H5 SUFFIX		
		CODE B USEO ON ASM FROM H5 TO P5 SUFFIX	1 1	
		CODE C USED ON ASM FROM P5 TO CURRENT	}	
-	2180749	CARD ASSEMBLY, READ PREAMP	REF	A
		SEE LIST 5- 103 FDR NEXT HIGHER ASM.		
		AND FIGURE 13 FDR ILLUSTRATION	1	
_	2181149-	CARD ASSEMBLY, READ PREAMP	REF	8
	× .	SEE LIST 5- 103 FDR NEXT HIGHER ASM.		
		AND FIGURE 13 FOR ILLUSTRATION		
_	2244049	CARD ASSEMBLY, READ PREAMP	REF	С
	4	SEE LIST 5- 103 FOR NEXT HIGHER ASM.	[]	
		AND FIGURE 13 FOR ILLUSTRATION		
- 1	216442	. RESISTOR, FXD CAR8, 680 DHM, 1/4W, 5%	2	
- 2	216452	. RESISTDR, FXD CAR8, 2K DHM, 1/4W, 5%	2	
- 3	216466	. RESISTOR, FXD, CARBON, 8.2K P/M 5% 1/4W	2	
- 3A	216472	• RESISTOR	2	8
- 4	216474	。 RESISTOR, FXD CAR8, 18K DHM, 1/4W, 5塚		
- 5	216481	. RESISTOR, FXO CAR8, 36K OHM, 1/4W, 5%		
- 5A	350428	. CAPACITOR - 100 UF		С
- 6	361479	. SLT MDDULE, MEDIUM SPEED CIRCUIT		
- 7	361497	. SLT MODULE, LOW SPEED CIRCUIT		
- 8	369203	. SEMICONOUCTOR DEVICE, DID-TYPE OO		A
- 8	369203	. SEMICONDUCTOR DEVICE, DID-TYPE DD		8
- 8	2414895	. SEMICONDUCTOR DEVICE, DIDDE		C
- 9	369599	. DIDDE ASM, SEMICONDUCTOR- 75V 150 MA		A
- 9	369599	. DIDDE ASM, SEMICONDUCTDR- 75V 150 MA		8
- 9	2414895	. SEMICONDUCTOR DEVICE, DIDDE		С
- 10	491228	. CAPACITOR, FILM, .01 MFO P/M 10% 100 V	2	
			,	
			2	
				A 8
				5
- 16	2414920	. MUDULE, CAPACITOR TANTALUM-PULAR, 6.8 UF	! <u>'</u>	
			<u> </u>	
	- 1 - 2 - 3 - 3A - 4 - 5 - 5 - 7 - 8 - 8 - 9 - 9 - 10 - 12 - 13 - 14 - 15 - 15	- 2180749 - 2181149 - 2244049 - 1 216442 - 2 216452 - 3 216466 - 3A 216472 - 4 216481 - 5A 350428 - 6 361479 - 7 361497 - 8 369203 - 8 2414895 - 9 369599 - 9 369599 - 9 369599 - 9 2414895 - 10 491228 - 12 550050 - 13 2160951 - 14 2160959 - 15 2180748 - 15 2181148	CDDE A USED ON ASM PRIOR TO H5 SUFFIX CDDE B USED ON ASM FROM H5 TO P5 SUFFIX CDDE C USED ON ASM FROM P5 TO P5 SUFFIX CDDE C USED ON ASM FROM P5 TO CURRENT CARD ASSEMBLY, READ PREAMP SEE LIST 5- 103 FOR NEXT HIGHER ASM. AND FIGURE 13 FOR ILLUSTRATION CARD ASSEMBLY, READ PREAMP SEE LIST 5- 103 FOR NEXT HIGHER ASM. AND FIGURE 13 FOR ILLUSTRATION CARD ASSEMBLY, READ PREAMP SEE LIST 5- 103 FOR NEXT HIGHER ASM. AND FIGURE 13 FOR ILLUSTRATION AND FIGURE 13 FOR NEXT HIGHER ASM. AND FIGURE 13 FOR NEXT HIGHER ASM. AND FIGURE 13 FOR NEXT HIGHER ASM. AND FIGURE 13 FOR SET SUFFIX AND FIGURE 13 FOR NEXT HIGHER ASM. AND FIGURE 13 FOR SET SET SET SET SET SET SET SET SET SET	CDDE A USED ON ASM PRIOR TO H5 SUFFIX CDDE B USED ON ASM FROM H5 TO P5 SUFFIX CDDE C USED ON ASM FROM H5 TO P5 SUFFIX CDDE C USED ON ASM FROM H5 TO P5 SUFFIX CDDE C USED ON ASM FROM H5 TO P5 SUFFIX CDDE C USED ON ASM FROM H5 TO P5 SUFFIX CDDE C USED ON ASM FROM H5 TO P5 SUFFIX CDDE C USED ON ASM FROM H5 TO P5 TO CURRENT REF SEE LIST 5- 103 FOR NEXT HIGHER ASM. AND FIGURE 13 FOR ILLUSTRATION CARD ASSEMBLY, READ PREAMP SEE LIST 5- 103 FOR NEXT HIGHER ASM. AND FIGURE 13 FOR ILLUSTRATION CARD ASSEMBLY-READ PREAMP SEE LIST 5- 103 FOR NEXT HIGHER ASM. AND FIGURE 13 FOR ILLUSTRATION RESISTOR, FXO CARB, 680 DHH, 1/4W, 5% 2 RESISTOR, FXO CARB, 680 DHH, 1/4W, 5% 2 RESISTOR, FXO CARB, 680 DHH, 1/4W, 5% 2 RESISTOR, FXO CARB, 680 DHH, 1/4W, 5% 2 RESISTOR, FXO CARB, 18K DHM, 1/4W, 5% 2 RESISTOR, FXO CARB, 18K DHM, 1/4W, 5% 2 RESISTOR, FXO CARB, 18K DHM, 1/4W, 5% 2 RESISTOR, FXO CARB, 18K DHM, 1/4W, 5% 3 A 36048 3 CAPACITOR - 100 UF 3 A 360497 3 SULT MODULE, LOW SPEED CIRCUIT 3 A 361497 5 SULT MODULE, LOW SPEED CIRCUIT 5 SEMICONDUCTOR DEVICE, DID TYPE DO 1 SEMICONDUCTOR DEVICE, DID TYPE DO 1 SEMICONDUCTOR DEVICE, DID TYPE DO 1 SEMICONDUCTOR DEVICE, DID TYPE DO 1 SEMICONDUCTOR DEVICE, DID TYPE DO 1 SEMICONDUCTOR DEVICE, DID TYPE DO 2 A 3609599 1 DIDDE ASM, SEMICONDUCTOR TO TYPE DO 1 SEMICONDUCTOR DEVICE, DID TYPE DO 2 A 3609599 1 DIDDE ASM, SEMICONDUCTOR TO TYPE DO 3 A 5809599 1 DIDDE ASM, SEMICONDUCTOR TO TYPE DO 3 CAPACITOR, FILM, .01 MFO P/M 10% 100 V 1 NORE 11. DELETED 1 SOCKET, PHENDLIC, 4 PINS 5 SPACER, SOCKET 1 SOCKET, PHENDLIC, 4 PINS 5 SPACER, SOCKET 5 2180148 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO, READ PREAMP 1 CARD, ETCHEO

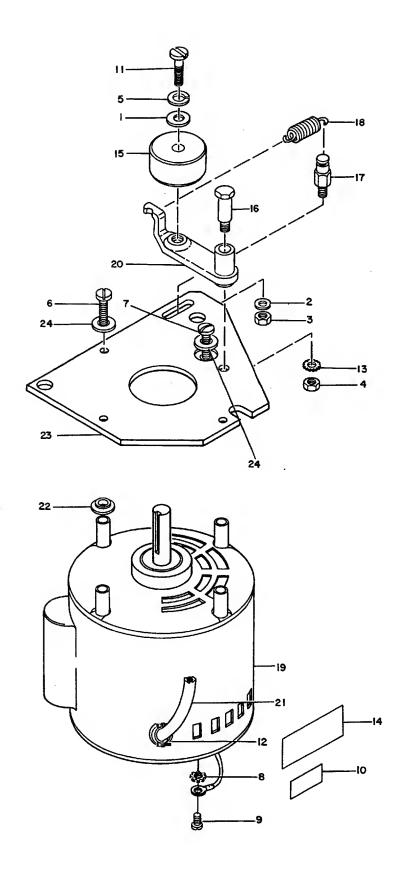


FIGURE 14. MOTOR ORIVE ASSEMBLY. SEE LIST 14.

NOTOR ORIVE ASSEMBLY	LIST AND INOEX ND.	PART NO.	OESCRIPTION 1 2 3 4	UNITS PER ASM.	USA8LE ON CODE
	INOEX ND.	NO. 2180986 453 3550 3960 4564 10309 25627 34512 56722 79778 138755 139395 151598 179966 369207 2154408 2154411 2154412 2162620 2162623 2162833 2178554	DRIVE ASSEMBLY, MOTOR SEE LIST 5- 134 FOR NEXT HIGHER ASM. AND FIGURE 14 FOR ILLUSTRATION NASHER, FL. 3/8 x 13/16 0D x 1/16 THK NASHER, FL 0.265 1D x 9/16 0D NUT, PLAIN, HEX- 5/16-18 x 1/2 FL W NASHER, LOCK-SPLIT 3/8 ID x 0.688 0D SCREW, MACH-8IND HD 8-32 x 1/2 LG SCREW, MACH-8IND HD 8-32 x 3/8 LG WASHER, LOCK-EXT TEETH ND. 6 x 5/16 0D SCREW - 8 INDING HEAD - SELF TAPPING LABEL SCREW, MACH, HEX HD 3/8-16 x 1/2 LG CLAMP, CABLE WASHER, LOCK-EXT TEETH 5/16 ID x 0.61D 0D LABEL, VOLTAGE BEARING, 1.850 0D x 0.669 IO x 7/8 THK PIVOT, 10LER PULLEY 8AR STUO, SPRING, 1/4-20 x 1-1/2 LG SPRING, EXTENSION, 1.37 LG x 0.50 OIA MOTOR, 1/2 HP, 50/60 CYCLE ARM ASSEMBLY, NOTOR SEE LIST 19-3B, 3E, 5C, 34 AND 34A FOR COMPONENT PARTS INSULATOR, NYLON, .186 IO, .44 00 PLATE, MOTOR MOUNT	PER ASM. REF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ON

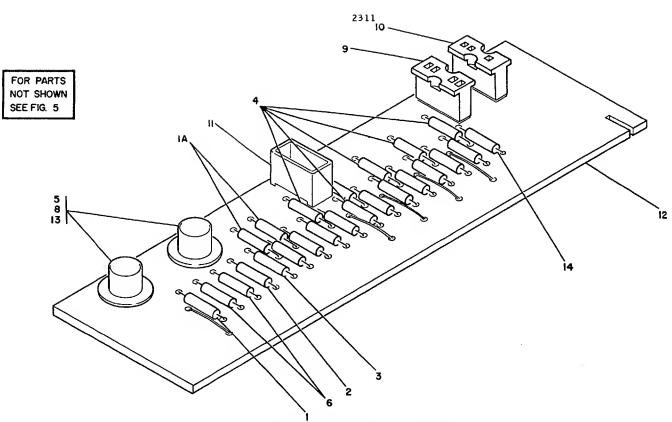


FIGURE 15.	WRITE	DRIVER	CARO	ASSEMBLY.	SFE	LIST	15.	
------------	-------	--------	------	-----------	-----	------	-----	--

				WRITE DRIVER CARD ASSEMBLY		
- 1				WALLE DRIVER CARD ASSERDED		
					1	
					i	
- 1				CORE A MESO ON ASH DOLOR TO HE SHEELY	l	
*	15 -			CODE A USEO ON ASM PRIOR TO H5 SUFFIX		
*				CODE 8 USEO ON ASM FROM H5 TO M5 SUFFIX		
*				CODE C USEO ON ASM FROM M5 TO CURRENT	1	
*				CODE 1 USED ON ASM PRIOR TO D5 SUFFIX		
*				CODE 2 USEO ON ASM FROM D5 TO H5 SUFFIX		
*				CODE 3 USEO ON ASM FROM M5 TO F6 SUFFIX	1	
*				CODE 4 USEO ON ASM FROM F6 TO CURRENT	į ,	
*						
	_		2181067	CARD ASSEMBLY, WRITE ORIVER	REF	A
			210100	SEE LIST 5- 138 FDR NEXT HIGHER ASM.		1
I				AND FIGURE 15 FOR ILLUSTRAT ON	1	
_	_		2181213	CARD ASSEMBLY, WRITE DRIVER	REF	8
~	_		2101213	SEE LIST 5- 138 FOR NEXT HIGHER ASM.		-
I				AND FIGURE 15 FOR ILLUSTRATION	1	
. I			2191260 -	CARO ASSEMBLY, WRITE DRIVER	REF	С
*	-		2181240 -		KEP	١
- 1				SEE LIST 5- 138 FOR NEXT HIGHER ASM.	1 .	
- 1		_		AND FIGURE 15 FOR ILLUSTRATION	i .	١
*	-	1	216432	• RESISTCR	1	1 A
- 1	-	l	216468	RESISTOR, FXD-COMP- 1DK OHMS P/M 5% 1/4W	2	В
*	-	1 A	216455	RESISTOR, FXD, COMP- 2.7K P/M 5% 1/4W	2	14
*	-	1 A	21646D	RESISTOR, 4.7K OHM, 1/4W, 5%	2	2A
*	-	1 A	216455	. RESISTOR,FXO,COMP- 2.7K P/M 5% 1/4W	2	В
*	-	1 A	216468	RESISTOR, FXO-COMP- 10K OHMS P/M 5% 1/4W	2	С
- 1	-	2	216461	. RESISTOR, FXO CAR8, 5.1K OHM, 1/4W, 5%	1	
- 1	-	3	216480	RESISTOR, FXO CAR8, 33K OHM, 1/4W, 5%	1	
*	-	4	369599	DIODE ASM, SEMICONOUCTOR- 75V 150 MA	5	3C
*	_	4	2414895	. SEMICONDUCTOR GEVICE, G10DE	5	4C
- 1	_	5	483070	• SPACER, TRANSISTOR	2	
*				USED WITH TRANSISTOR 2414877 ONLY		
. 1	_	6	492551	. COIL	2	14
	_	6	483224	. RESISTOR, 36K OHM, 1/4W, 5%	2	2 A
		-		INDEX 7 GELETED	-	
.	_	6	483224	RESISTOR, 36K OHM, 1/4W, 5%	2	В
	_	6	483224	- RESISTOR, 36K OHM. 1/4W. 5%	2	Č
1	_	8	811839	SINK, HEAT	2	"
-	_	9	2160951	. SOCKET, PHENOLIC, 4 PINS	5	
- 1	-		2160953		ĺí	
				• SDCKET, PHENOLIC, 3 PINS	6	
- 1		11	2160959	• SPACER, SOCKET		
		12	2180750	- CARD, ETCHED, WRITE	1	
		13	2414877	. TRANSISTOR, SILICON TYPE 136, PNP	2	
*	-	13	369113	• TRANSISTOR	2	2A
*				SUBSTITUTE FOR TRANSISTOR 2414877		
*				USED WITH HEAT SINK 811839 ONLY	1	
- {		14	2414895	. OIODE, TYPE HA	12	

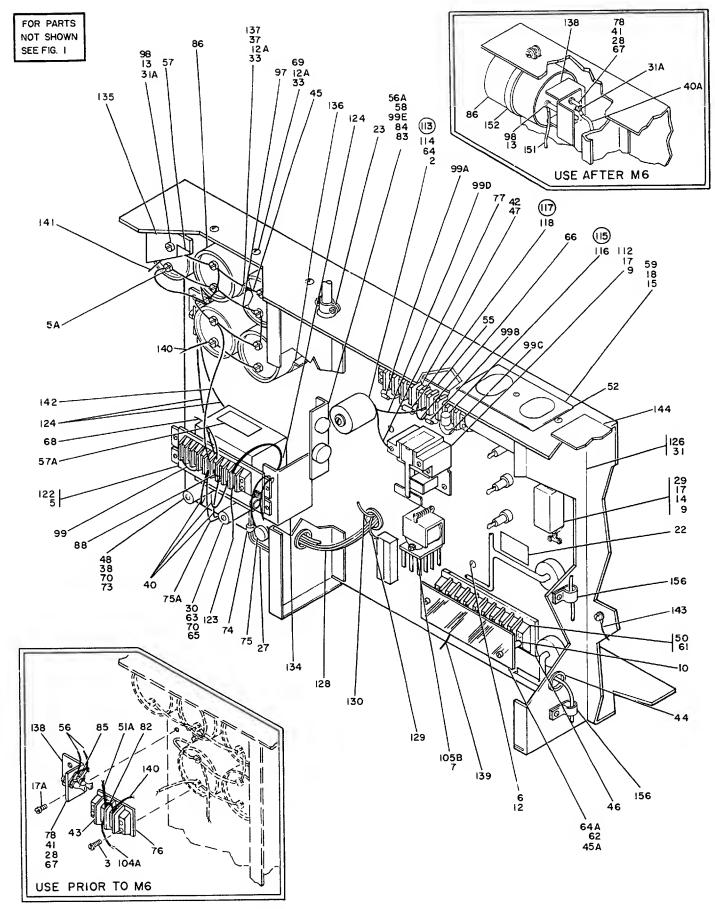


FIGURE 16. SEQUENCE PANEL ASSEMBLY. SHEET 1 OF 2. SEE LIST 16.

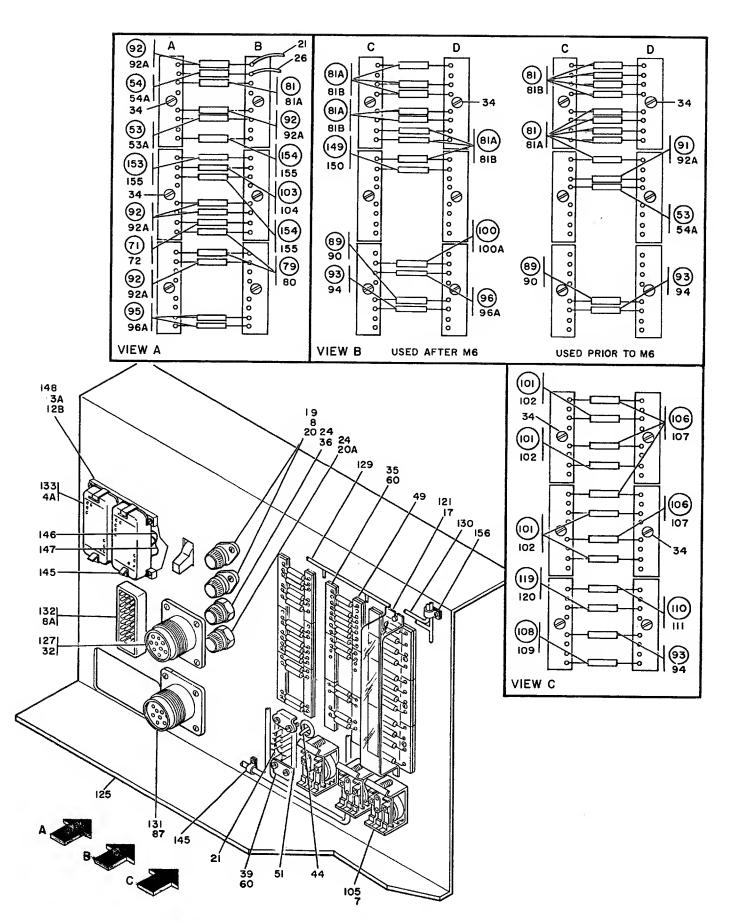


FIGURE 16. SEQUENCE PANEL ASSEMBLY. SHEET 2 OF 2. SEE LIST 16.

	LIST AND INOEX ND.	PART NO.	DESCRIPTION 1 2 3 4	UNITS PER ASM.	USABLE DN CODE
			SEQUENCE PANEL ASSEMBLY		
* * * * * * * * * * * * * * * * * * * *	16 -		CODE A USED ON 60 CYCLE MACHINES CODE B USED ON 50 CYCLE MACHINES CODE 1 USED ON ASM PRIDR TD F5 SUFFIX CODE 2 USED ON ASM FROM F5 TO S5 SUFFIX CODE 3 USED ON ASM FROM F5 TO CURRENT CODE 4 USED ON ASM PRIDR TD S5 SUFFIX CODE 5 USED ON ASM FROM S5 TO M6 SUFFIX CODE 6 USED ON ASM FROM S5 TO CURRENT CODE 6 USED ON ASM FROM S5 TO CURRENT CODE 7 USED ON ASM PRIDR TO M6 SUFFIX CODE 8 USED ON ASM PRIDR TO M6 SUFFIX CODE 8 USED ON ASM M6 TO CURRENT		
	-	2180680	PANEL ASSEMBLY, SECUENCE, 60 CYCLE SEE LIST 1- 52 FDR NEXT HIGHER ASM.	REF	Α :
	-	2180852	AND FIGURE 16 FOR ILLUSTRATION PANEL ASSEMBLY, SEQUENCE, 50 CYCLE SEE LIST 1- 52 FOR NEXT HIGHER ASM.	REF	8
*	- 1	10170	AND FIGURE 16 FOR ILLUSTRATION • SCREW-MACH, BIND HD ND. 6-32 X •250 LG SEE LIST 1- 18 FDR NEXT HIGHER ASM•	REF	
	- 2 - 3 - 3A	22478 25627 25627	. WASHER, FLAT . SCREW, MACH-BIND HD 8-32 X 1/2 LG . SCREW, MACH-BIND HD 8-32 X 1/2 LG SEE LIST 1- 2A FOR NEXT HIGHER ASM.	1 ? REF	7 6
*	- 4 - 4 - 4A	25627 582D7 38264 2181207	SEE LIST 1- 2A FOR NEXT HIGHER ASM. SCREW, MACH-BIND HD 8-32 X 1/2 LG SCREW, MACH-BIND HD 8-32 X 1/4 LG SCREW, MACH-FIL H 4-40 X 3/8 LG SCREW, THD FORMING-FIL H 6-32 X 1/4 LG	2 2 REF REF	A B 4 6
	- 5 - 5A	28413 28413	SEE LIST 1- 4 FDR NEXT HIGHER ASM. SCREW, MACH BINDING HD 10-32 X 5/16 LG SCREW, MACH-BIND HD 10-32 X 5/16 LG SCREW, BINDING HEAD MACHINE	4 8 8	4 5
*	- 6 - 6A	34512 34512	SCREW, BIND. HD B-32 X .375 LG SCREW, BIND. HD B-32 X .375 LG SEE LIST 1- 28 FDR NEXT HIGHER ASM.	REF 4	6
	- 7 - 8 - 8A		• SCREW, MACH-BIND HD ND. 6-32 X 15/16 LG • SCREW, MACH-FIL H 6-32 X 5/16 LG • SCREW, MACH-FIL H 6-32 X 1/2 LG SEE LIST 1- 4A FOR NEXT HIGHER ASM•	REF	
	- 9 - 10 - 11	45690 54291 55726	• WASHER, FLAT, 0.203 ID X 0.438 DD • SPACER • SCREW, MACH-BIND HO NO. 6-32 X 3/16 LG SEE LIST 1- 6 FDR NEXT HIGHER ASM.	REF	
*	- 12 - 12A - 128		• LDCKWASHER, EXTERNAL TDDTH • LDCKWASHER, EXTERNAL TDDTH • LOCKWASHER, EXTERNAL TOOTH SEE LIST 1- 6A FOR NEXT HIGHER ASM•	5 2 REF	7
	- 13 - 14 - 15 - 17	56079 56121 56722 58207	. WASHER, LOCK-EXT TEETH ND. 10 X D.410 OD . WASHER, LOCK-INT TEETH ND. 10 X D.381 OD . WASHER, LOCK-EXT TEETH ND. 6 X 5/16 DD . SCREW, MACH-UNDRCT BIND HO B-32 X 1/4 LG	2 2 2 6	
•	- 17A - 18 - 19 - 20	58207 91610 104615 107668	. SCREW.MACH-UNDRCT BIND HD 8-32 X 1/4 LG . SCREW.BINDING HD SELF TAPPING . MOUNT-FUSE . FUSE.CTG-SLOW BLDW B AMP 250V	2 2 2	
•	- 2DA - 21 - 21	111257 129243 129243	• FUSE, CARTRIDGE - 4 AMP 250V • JUMPER ASM-BLU 3-1/2 20AWG 1 LUG EA END • JUMPER ASM-BLU 3-1/2 20AWG 1 LUG EA END SEE LIST 19-7, FDR CDMPDNENT PARTS	1 23 24	7
*	- 22 - 23 - 24	138755 151598 179946	• LABEL • CLAMP, CABLE • HDLDER-FUSE INDEX 25 DELETEO	1 1 1	1
* * *	- 26 - 26 - 26 - 27 - 27 - 27 - 28 - 29 - 30	205331 205331 205331 205331 207353 8010761 217019 220278 221110	JUMPER-RELAY GATES UNIT 1/B BRASS JUMPER-RELAY GATES UNIT 1/B BRASS JUMPER-RELAY GATES UNIT 1/B BRASS JUMPER-RELAY GATES UNIT 1/B BRASS CAPACITOR, ELECTROLYTIC, B MFD 330VAC CAPACITOR, 1B MF WASHER, INSULATING, 1 IN. DIA X 0.004THK SWITCH, ON-DFF, 115V-230V, 5AMP RESISTOR, 200 DHM, P/M 5 PERCENT, 25W	21 20 18 17 1 1 4	5 8 A 8

	LIST AND INDEX ND.	PART ND.	0ESCRIPTION	UNITS PER ASM•	US ABL DN C DOE
			SEQUENCE PANEL ASSEMBLY -CONT		
*	16 - 31 - 31	236849 2181004	- SCREW, BINDING HEAD MACHINE - SCREW, THREAD FORMING-HEX WASHER HD	6	7
*	- 31A	28413	SCREW, MACH-BIND HD 10-32 x 5/16 LG	6 2	8 7
*	- 31A - 32	236849 251970	- SCREW, SINDING HEAD MACHINE - SCREW-MACH BO. HD. 4-40 x 1/4 LG	2	9
*	- 33	257189	• NUT - HEX-8-32UNC THO	2 2	1 7
*	- 34 - 35	257985 302090	- WASHER,FLAT-ND. 4 x 0.250 DD x 0.028 THK - TERMINAL BLOCK ASSY	5	i
ĺ	- 36	303549	• FUSE, SLOW BLOW, 1.0 AMP, 250 VDLT	18	
*	- 37 - 38	304477 304479	- SCREW,MACH-RH 8-32 x 2-1/4 LG - SCREW,MACH-RH 8-32 x 4-3/4 LG	Ī	7
1	- 39	308704	• SCREW, MACHING	1 2	1
*	- 40	311540	. JUMPER ASM-8LK 8 IN. 16AHG 1 LUG EA END	3	
	- 40A	311540	SEE LIST-19-38, FDR COMPONENT PARTS - JUMPER ASM-8LK 8 IN. 16AWG 1 LUG EA ENO		
-	,,	21.004	SEE LIST 19- 3B FOR COMPONENT PARTS	2	8
-	- 41 - 42	316996 317145	• LUG • 8LOCK, 8ARRIER TERMINAL	2	
*	- 43	317193	- TERMINAL 8LOCK	1 1	7
	- 44 - 45	317279 319985	GROMMET,RU8-FOR 1 HOLE X 1/16 PNL JUMPER ASSEMBLY	3	
			SEE LIST 19-18A, FOR COMPONENT PARTS	3	7
	- 45A - 46	322065 322289	• SCREW, MACH-8INO HD 6-32 x 5/8 LG • STRIP, MARKER, 1-4	2	3
-	- 47	322550	• SCREW, MACH-8INO HD ND. 6-32 X 1/2 LG	1 1	
	- 48 - 49	322739 322792	• RESISTOR, FXD 50 DHMS P/M 5% 50W	2	
	- 50	323845	INSULATOR, TERMINAL BLOCK TERMINAL BOARO- 4 DBL SCREW TERMINALS	18	_
	- 51	328602	. UNIT, RC	1 2	3
*	- 51 A - 52	350559 359018	JUMPER ASSEMBLY COVER,OUTLET BDX	ī	7
*	- 53	359511	. CAPACITOR ASSEMBLY		4
:	- 54 - 54A	359511	CAPACITOR ASSEMBLY	2	4
	- 55	2102160 360339	CAPACITOR, PAPER, 0.1 MFD P/M 20% 400V MARKER, TERMINAL	1	
*	- 56	360831	• CABLE	1 2	7
	- 56A	362915	SEE LIST 19-18, FOR COMPONENT PARTS • LABEL, IBM, BLACK LETTERS ON WHITE		
			SEE LIST 1- 23 FOR NEXT HIGHER ASM.	REF	
:	- 57 - 57A	369207 369207	• LABEL-ENGLISH • LABEL-ENGLISH	1	7
	- 58	372688	• CARD ASSEMBLY	1 REF	8
	- 59	61 002 E	SEE LIST 1- 25 FOR NEXT HIGHER ASM.		
•	- 59	418835 357995	• OUTLET-CONVENIENCE, 220V-50 CY • OUTLET-CONVENIENCE, 125V-60 CY		1 A
*	- 59	418835	DUTLET-CONVENIENCE, 220V-50 CY	1 I	2A 5A
*	- 59 - 59	357995 418835	- OUTLET-CONVENIENCE,125V-60 CY	1 . 1	8 A
	- 60	438550	DUTLET-CONVENIENCE, 220V-50 CY SCREW, MACH-8INO HD 4-40 x 0.5 LG	1	8
	- 61	438567	- SCREW, MACH-UNORCT BINO HD 6-32 x 1 LG	20	1
	- 61 - 62	438568 438571	• SCREW, MACH-UNDRCT BIND HD 6-32 x 1-1/8 • SCREW, BINOING HEAD, 6-32 NC x 1-3/4 LG.	2	3
	- 63	438582	- SCREW	2	
	- 64 - 64	438588 438589	SCREW, MACH-UNDROT BIND HD 8-32 x 1-1/4	1 - 1	1
	- 64A	438891	SCREW, MACH-BIND HO 8-32 x 1-1/2 LG SHIELD, CLEAR SAFETY, 4 POSITION	1 - 1	3
	- 65 - 65	442958	• WASHER, MICA	1 2]
-	- 65A	472179	JUMPER ASSEMBLY NOT ILLUSTRATEO		2
1	- 66	472187	• JUMPER	1	ĺ
	- 67 - 67	473582 419131	• INSULATOR	2	1
	- 68	480612	SLEEVE, 195 I.D., 275 O.D.X .050 THICK JUMPER ASSEMBLY, 2-3/4 IN. LONG		3
•	- 69 - 70	504698	- SCREW, MACH-RH 8-32 X 4-1/4 LG		1
	- 70 - 71	507144 509968	• WASHER, CENTERING • RESISTOR ASSEMBLY, 200 DHM 1/2W	4	1
	- 72	317006	- RESISTOR, FXO, COMP- 200 DHMS P/M 5% 1/2W		
	- 73 - 74	521695 524928	- WASHER, MICA	2	1
	- 74 4	121202	8RACKET, CAPACITOR MTG CLAMP, CAPACITOR	2	A
	- 75	526378	- INSULATOR, CAPACITOR	2 2	B
- 1	- 1			1 -1	·

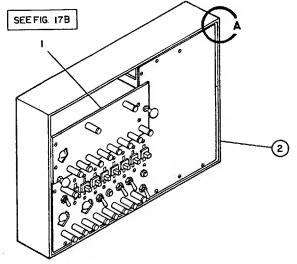
1				1	
- 1	LIST AND			2T1NU	USABLE
	INDEX	DADT	DESCRIPTION	PER	ON
ŀ		PART	ł	ASM.	COOE
	NO.	NO.	1 2 3 4	A 3110	1 0000
}				 	
			CCOUCNICS DANGE ASSEMBLY -CONT		•
			SEQUENCE PANEL ASSEMBLY -CONT	1	Í
				1	1
ĺ				1	1
				1 -	ĺ
ı	16 - 75A	561509	. JUMPER ASSEMBLY	1	1
- * İ		2181090	- JUMPER ASSEMBLY	1	5
	- 76	589768	. INSULATOR, TERMINAL BOARD	1	7
- "	- 77	597215	. JUMPER ASSY, GROUND 4-1/2 IN LG	1	ĺ
- 1	- 11	391213	SEE LIST 19-18, FOR COMPONENT PARTS	1	(
- 1	_			2	1
- 1	- 7B	598479	• RECTIFIER, SILICON		!
	- 79	603541	. CAPACITOR ASSEMBLY	2	į.
	- BD	535299	CAPACITOR, O.1 MFD P/M 10 PERCENT, 100VOCW	1	İ
	- 81	615354	- DIODE ASSEMBLY	1	1
		2162849	. OIODE ASM	1	5
-			• OIODE ASM	9	5
_		2162B49		9	i
*		615354	. DIODE ASSEMBLY	1	1
*		2162849	• OTODE ASM	9	3
*	- 818	2111232	SEMICGNOUCTOR DEVICE-DIODE	1	
			USEC ON ASM 615354 ONLY		i
	- 818	241927	SEMICONDUCTOR DEVICE-DIGGE TYPE HF	1	i
-	1		USED ON ASM 2162849 ONLY		1
_		730469		1	7
*	- B2	730468	. JUMPER-TERMINAL STRIP	REF	
	~ 83	740493	. BRACKET, CARD MOUNTING	7.5	1
			SEE LIST 1- 28 FOR NEXT HIGHER ASM.		1
	- B4	740550	. JUMPER ASSEMBLY, 2-1/2 INCH	REF	1
			SEE LIST 1- 29 FOR NEXT HIGHER ASM.		1
	- 85	B01620	. JUMPER-BLK 2.50 IN. 18AWG	1	7
	- 86	801645	. CAPACITOR, ELECTROLYTIC, 5500 MFD 45VOC	5	7
-	1		. CAPACITOR, FXO, ELECTROLYTIC, 22000 MFD	1	В
₹,	- B6	2181284		4	1 -
	- 87	B03278	. SCREW, MACH, RH 10-24 X 5/16 LG	1	Α
*	- B8	1143227	- BARRIER, JUMPER,	1	
*	- BB	1143227	. BARRIER, JUMPER,	1	4B
*	- 88	472187	• JUMPER-BRASS	1	6B
	- 89	2102710	. RESISTOR ASSEMBLY, 10 OHM 1/2W	1	1
	- 90	321271	RESISTOR, FXQ, COMP- 10 DHMS P/M 5% 1/2W	1	1
	- 90 - 91	2103070	RESISTOR ASSEMBLY, 330 OHM 1/2W	ī	4
-			A second	5	A.
*	- 92	2103070	RESISTOR ASSEMBLY, 330 OHM 1/2W	í	
*	- 92A	317248	CONNECTOR, PLUG, ELEC- 2 FEMALE CONTACTS		(
*	- 93	2103102	. CAPACITOR ASSEMBLY, IMFD 200VOC	2	
	- 94	2102374	CAPACITOR, PAPER, 1.0 MFO P30/M20% 2DOV	1	
	- 95	2103552	. RESISTOR ASSEMBLY, 1K OHM, 2W	2	
		2103552	. RESISTOR ASSEMBLY, 1K OHM, 2W	1	В
_	- 96A		RESISTDR, FXD, CDMP- 1K P/M 5% 2W	1	
-	l .	1		4	7
*	- 97	2114054	. JUMPER ASSEMBLY, 2-5/B INCHES LONG	1	1
		ł	SEE LIST 19-48, FOR COMPONENT PARTS	1 .	I.
	- 98	2114312	_ STUD, MALE - FEMALE, 1D-32 X .94 LONG	2	
	- 99	2114480	. JUMPER ASM	1	
		i	SEE LIST 19-30, FOR COMPONENT PARTS		1
	- 994	2124546	. RESISTOR ASSEMBLY- 6.B K 1/2 W	1	4B
_		338320	. CAPACITOR ASSEMBLY- 1 MFD 600 VDC	3	
			JUMPER ASSEMBLY	1	-
		2114481		i	
*	- 990	2114490	. JUMPER ASSEMBLY, 5-1/2 INCHES LONG	1 .	1
	I		SEE LIST 19- 30 FOR COMPONENT PARTS	000	1
*	- 99E	2125765	. LOCKWASHER, DISHED	REF	1
	1	1	SEE LIST 1- 30 FOR NEXT HIGHER ASM.	1 -	1 -
	-100	2129359	• RESISTOR ASSEMBLY, 300 DHMS 1/2 WATT	1	В
	-10DA		. RESISTOR, FXD- 300 OHMS 1/2 WATT	1	1
		2129362	. RESISTOR ASSEMBLY, 150 OHM 10 W	4	1
	-102	2102625	RESISTOR, FXD, W/W 150 OHM P/M 5% 10W	1	1
	1	2130557	. RESISTOR ASSEMBLY, 5.6K OHM, 1/2W	i	-
				i	1
	-104	317430	• RESISTOR	i	7
*		215281B	. JUMPER ASSEMBLY		7
*		2154687	. RELAY, ARMATURE, 3PDI, 36VOC	2	1 _
#	-105A	2154687	. RELAY, ARMATURE, 3PDT, 36VDC	1	7
		2154687	• RELAY, ARMATURE, 3PDT, 36VDC	1	7
		221B66B	. RELAY, ARMATURE, 3POT 36VOC	1	8
		2154914	- RESISTOR ASM	4	1
	-107	595261	RESISTOR, FXO, WW- 20 OHMS P/M 5% 10W	i	1
			. CAPACITOR ASSEMBLY	i	1
		2154915		i	1
	-109	2109462	CAPACITOR, ELECT., 25D MFD P/M 10% 5D V		1
	-110	2157392	. RESISTOR ASSEMBLY, 100 OHM 20W	1	ŧ
	-111	285955	RESISTOR, FXO, WW- 100 OHMS 20W	1	1
	-112	21607B9	. RELAY, MOTOR, 36 VOLT 25 AMP	1	
	-113	2160790	. CHOKE ASSEMBLY, TOROID	1	i
	-114	2160804	CHOKE, RF FILTER	1	1
			. CAPACITOR ASSEMBLY, 0.1UF 600VDC	3	1
	-115	2160805		ĺí	1
	-116	286531	CAPACITOR, PAPER, 0.01 MFD P/M 20% 600V		4
*	-117	216080B	• RESISTOR ASSEMBLY, 47 OHM 2W	1	1 7
	-117	2160808	• RESISTOR ASSEMBLY, 47 OHM 2W	2	6

1		1		+	·
			SEQUENCE PANEL ASSEMBLY -CONT		
	16 -118	335329	DESIGNO FINED AZ ONN 2 H		ł
	-119	2160826	RESISTOR, FIXED 47 OHM 2 W RESISTOR ASSEMBLY, 10 OHM 50VOC 2W	1	1
	-120	317077	• RESISTOR, FXD, COMP, 10 DHM P/M 5% 2W	1	
- 1	-121	2160847	. COVER, SAFETY	1 1	[
*	-122	2178420	- TRANSFORMER ASM	li	7A
*	-122	2181332	. TRANSFORMER ASSEMBLY, 36V 60 CYCLE	li	8A
*	-122	4117458	. TRANSFORMER ASSEMBLY	li	78
*	-122	2181258	- TRANSFORMER ASSEMBLY, 36V 50 CYCLE	i	88
	-123	21 78516	. JUMPER ASSEMBLY, 8-1/2 INCHES LONG	1	
- 1			SEE LIST 19-3C, FOR COMPONENT PARTS		
*	-124	2178523	- JUMPER ASSEMBLY, 12-1/2 INCHES LONG	2	7
- 1	-125	2180677	• PANEL, SEQUENCE	1	
	-126 -127	2180678 2180681	. HOUSING, SIDE PANEL	1	
	-121	2100001	- CABLE ASSEMBLY, AC JUMPER SEE LIST 19-3, 38, 3C, 4B, 5B, 17A, 18,	1	A
			40 AND 75 FOR COMPONENT PARTS	1]
- 1	-127	2180854	. CABLE ASSY., AC JUMPER, 50 CYCLE	1 .	
ı		1	SEE LIST 19-3, 38, 3C, 3E, 48, 5, 58,	1	8
ı		1	5C, 17A, 18, 40 ANO 75 FOR	1	i i
ı		1	COMPONENT PARTS		
	-128	2180682	- CABLE ASSEMBLY, SEQUENCE PANEL TO GATE	1	
			SEE LIST 19-68, 60, 7A, 20, 55 AND 62	1	
- [2,004.52	FOR COMPONENT PARTS		
- 1	-129	2180685	. CABLE ASSEMBLY, SEQUENCE PANEL JUMPER	1	i
- 1		-	SEE LIST 19-68, 60, 7A, 7C, 8A, 10, 10A,		[
- 1	- 120	2190494	11, 11A, 57 AND 75 FOR COMPONENT PARTS	1	
	-130	2180686	. CABLE ASSEMBLY, SOLENOIO AND INTERLOCK	1	
			SEE LIST 19-3C, 4, 68, 60, 7A, 21, 22, 23, 32, 35A, 56 ANO 56A	1	[
		1	FOR COMPONENT PARTS	1	[
	-131	2180688	. CABLE ASSEMBLY, AC INPUT JUMPER	1	
			SEE LIST 19-3, 48, 58 ANO 41	1 .	A
			FOR COMPONENT PARTS		1 1
- 1	-131	2180853	. CABLE ASSY., AC INPUT JUMPER, 50 CYCLE	1	В
- 1		ı	SEE LIST 19-3, 48, 58 ANO 41		1
- 1			FOR COMPONENT PARTS		{
	-132	2180691	. CABLE ASSEMBLY, DC TO GATE	REF	
ŀ		1	SEE LIST 1- 55 FOR NEXT HIGHER ASM.		
		1	AND LIST 19-3, 38, 3E, 10A, 20, 43, 43A, 438, 44, 46, 49, 52, 55 AND 62		
- 1		1	FOR COMPONENT PARTS		
	-133	2180692	. CABLE ASSEMBLY, SIGNAL PLUG TO GATE	REF	4
- 1		1	SEE LIST 1- 56 FOR NEXT HIGHER ASM.	""	7
			AND LIST 19-9A, 98, 10, 20, 25, 26, 55		
		1	AND 62 FOR COMPONENT PARTS		- 1
*	-133	2181189	. CABLE ASSEMBLY-SIGNAL PLUG TO GATE	REF	6
*			SEE LIST 1- 56 FOR NEXT HIGHER ASM.		
			AND LIST 19-10A, 108, 118, 20, 55, 62, 63 AND 63A FOR COMPONENT PARTS		
*	-134	2180753	SHIELD, TRANSFORMER	, ,	
*		2180755	- SHIELO, 4.250 X 7.00	1	7A
*		2180841	- CLAMP, CAPACITOR	1 1	7
*	-137	2180842	- CLAMP, CAPACITOR	i	7
*		2180843	. BRACKET, DIDDE MOUNTING	∣ î∣	7
*		2181388	. HEAT SINK, DIODE	i	8
	-139	2180969	- JUMPER ASSEMBLY, 12 INCHES LONG	ī	1
_ [-140	31 80070	SEE LIST 19-3, FOR COMPONENT PARTS		
*	-140	2180970	JUMPER ASSEMBLY, 7-1/4 INCHES LONG	1	7
*	-141	2180977	SEE LIST 19-48, FOR COMPONENT PARTS • JUMPER ASSEMBLY, 8 INCHES LONG	_	[
-	171	[100711	SEE LIST 19-48, FOR COMPONENT PARTS	1	7B
*	-142	2180978	JUMPER ASSEMBLY, 5 INCHES LONG		
		1	SEE LIST 19-3C AND 3D	1	7A
			FOR COMPONENT PARTS		- 1
*	-143	2181013	- JUMPER ASSEMBLY	1	3
		5308492	• RESISTOR ASSEMBLY- 750 OHMS 1/2 WATT	2	7
*		2181092	• LASEL	ī	2
*		2181092	• LASEL	ī	8
*		2181199	• CLIP-STRAIN RELIEF	REF	6
*		2181204	JUMPER ASSEMBLY	REF	6
	-147 -148	2181205 2181206	• JUMPER ASM-GRN/YEL 1 LUG 2 SOCK CONTACTS	REF	6
		2181277	- 8AR,ADAPTER - INDUCTOR ASSEMBLY, 100 UH	REF	6
	-150	491292	• INDUCTOR ASSEMBLY, 100 UH	1	8
		2181334	- JUMPER ASSEMBLY	1	. 1
*		5212727	- CLAMP, CAPACITOR	2	8
*	-153	5308492	• RESISTOR ASSEMBLY- 750 OHMS 1/2 WATT	1	7
*		5308492	- RESISTOR ASSEMBLY- 750 OHMS 1/2 WATT	2	.
•	-155	317015	• • RESISTOR,FXD,COMP- 750 OHMS P/M 5% 1/2W	ī	1
*	-156	NO NO.	• CABLE CLAMP, SEE LIST 19-2	AR	
L					

FOR PARTS NOT SHOWN SEE FIG. 1 121 27 25 26-28--35 --3IA 15 18-20 30 DETAIL A USED AFTER G5

FIGURE 17. GATE ASSEMBLY. SEE LIST 17.

	LIST AND INDEX	PART NO.	DESCRIPTION 1 2 3 4	UNITS PER ASM.	USABLE ON COOE
			GATE ASSEMBLY		
*	17 -		CODE 1 USEO ON ASM PRIOR TD G5 SUFFIX CDDE 2 USED ON ASM FROM G5 TO A6 SUFFIX		
*	- 1	2180740	GATE ASSEMBLY USEO ON MACHINES PRIOR TO A6 SUFFIX SEE LIST 1- 61 FOR NEXT HIGHER ASM ANO FIGURE 17 FOR ILLUSTRATION • SCREW, MACH-RH 3-48 X 0.250 LG	REF	
* * *	- 2 - 3 - 3 - 4 - 5	32042 56722 2125765 171485 172999	SCREW, MACH 8IND. HD 10-32 X 3/8 LG. WASHER, LOCK-EXT T .141 IO LOCKWASHER, OISHEO BLAOE, FAN MOTOR- 230V AC INOEX 6 DELETEO	1 1 1 1	1 1 2 1
	- 7 - 8 - 9 - 10 - 11	234318 257189 320451 344015 550578 596481	• SCREW,ASSEM WASH-FIL H 8-32 X 3/8 LG • NUT, HEX., 8-32 X 0.3438 W • STRIP,8ARRIER TERMINAL • NUT,STDP 6-32 X 5/16 FL W • STRIP,MARKER • JUMPER ASSEMBLY	1 1 1 2 1 7	2
* * *	- 12 - 13 - 14 - 14A	609687 725558 730468 81693	. CONTACT . COVER-CONNECTOR . JUMPER-TERMINAL STRIP . SCREW, MACH-8IND HD 6-32 X 3/8 LG USEO ON FIELD MODIFIED MACHINE DNLY	2 1 2 4	1 1 2 2
	- 15 - 16 - 17	2181005 811804 813621 2101089 2180683	• SCREM, SELF TAPPING, 6-32 X .375 LG. • GUIDE, CARO • POST, GUIDE • STRAP, GROUNO, 518 X 7 IN. • CABLE ASSEMBLY, GATE DC JUMPER SEE LIST 19-4, 29, 30, 65, 66 AND 66A	16 19 1	2
•	- 19	2180689	FOR COMPONENT PARTS - CABLE ASSEMBLY-GATE FAN SEE LIST 19-5, 22, 23, 56 ANO 56A FOR COMPONENT PARTS	1	1
*	- 22 - 23 - 24 - 25 - 26 - 27 - 28	2180720 2180721 2180722 2180744 2178597 2180727 2180733 2180974 2180974	- GATE WELOMENT ASSEMBLY INDEX 21 OELETEO - ENCLOSURE, FAN - PLATE, FAN ENCLOSURE - COVER ASSEMBLY, GATE - PLUNGER, NYLATCH - FOAM, 9 X 12, -13 THICK - GROMMET, COVER LATCH - COVER, SLT GATE - OECAL, OC TB ANO TEST POINTS	1 1 1 2 1 2 1 1	1
* * * * * * * * *	- 30 - 30 A - 31 - 31 A - 31 A - 32 - 32 - 32 - 33 - 33	2180972 2180933 2181005 2181005 2181005 811417 2181006 2181088 2181007 2181007 2182509	CLAMP, PAOOLE CDNNECTDR, SLT 8ALL-SPODL PLUG SCREW, SELF TAPPING, 6-32 X .375 LG. SCREW, SELF TAPPING, 6-32 X .375 LG. SCREW, SELF TAPPING, 6-32 X .375 LG. SCREW,HEX SOCKET H- 6-32 X 1/2 LG SCREW, SELF TAPPING, 6-32 X 1.00 LG. SCREW SCREW SCREW SCREW, SELF TAPPING, 6-32 X .625 LG. SCREW, SELF TAPPING, 6-32 X .625 LG. CAPACATDR, FXO-0.1 UF100V	1 1 5 1 6 6 2 2 4 2 7	2 1 2 1 2 1 2 1 2
•		5811144 NO NO.	. 80ARO, SLT-01A-B1 . CABLE CLAMP, SEE LIST 19-2	1 AR	1



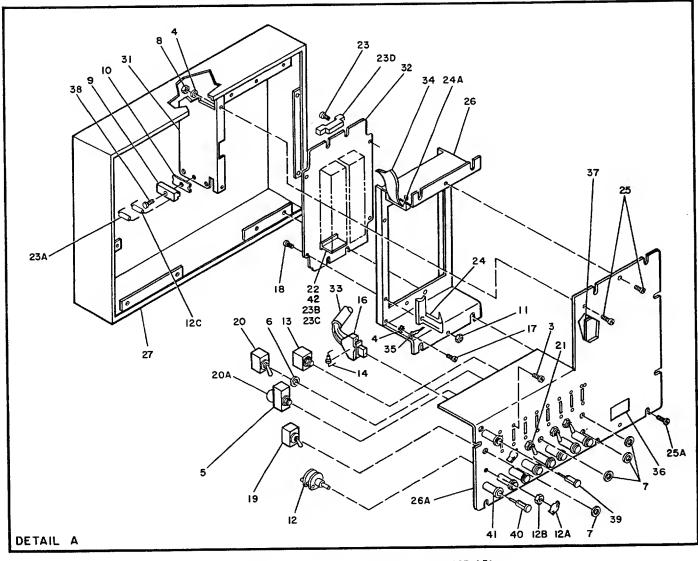
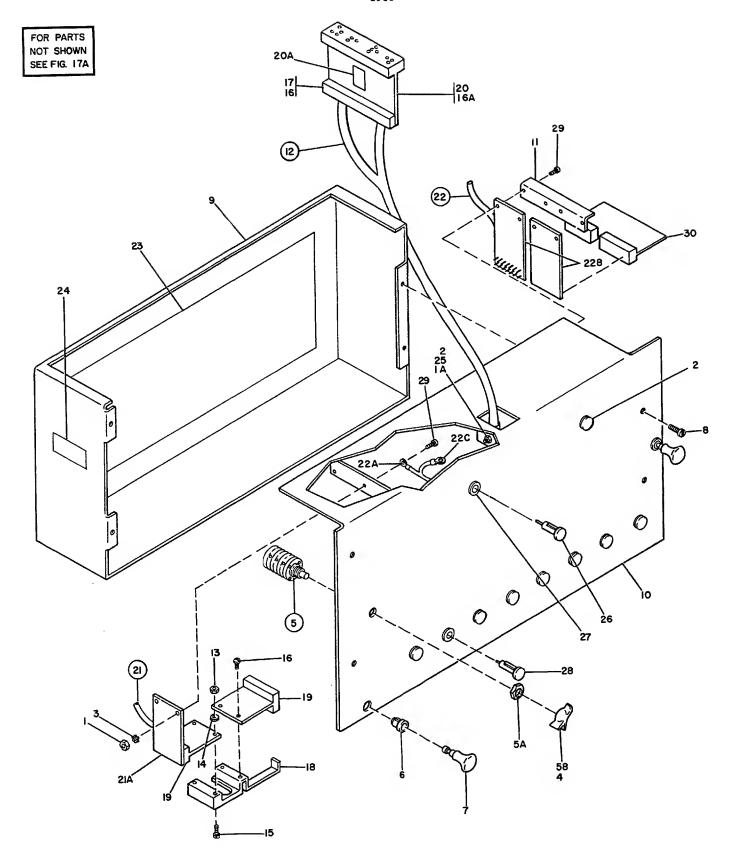


FIGURE 17A. C.E. BOX ASSEMBLY. SEE LIST 17A.

```
C.E. BOX ASSEMBLY.
17A-
                                         CODE 1 USED ON ASM PRIOR TO M5 SUFFIX
                                         CODE 2 USED ON ASM FROM M5 TO P5 SUFFIX
                                         CODE 3 USED ON ASM FROM M5 TO CURRENT
                                         CODE 4 USED ON ASM PRIDR TO P5 SUFFIX
                                         CODE 5 USEO ON ASM FROM P5 TO CURRENT
                                         CODE 6 USED ON ASM PRIOR TO E6 SUFFIX
                                         CODE 7 USED ON ASM FROM E6 TO CURRENT
CODE 8 USED CN ASM PRIOR TO H6 SUFFIX
                                         CCDE 9 USED ON ASM FROM H6 TO CURRENT
           2200012
                                 CE BOX ASSEMBLY
                                                                                                                            REF
                                         SEE FIGURE 17A FOR ILLUSTRATION
          2200014
       1
                                 . INDICATOR BOX ASSEMBLY
                                                                                                                              1
                                         SEE LIST 17B FOR DETAIL BREAKDOWN
                                 . CE BOX ASSEMBLY, CONTROL UNIT
      2
           2200013
             10170
                                 . . SCREW-MACH, BIND HO NO. 6-32 X .250 LG
                                 - WASHER, LOCK-EXT T .141 IO
- SWITCH, PUSH-NC 125V AC 1 AMP
- SWITCH, PUSHBUTTON-SPDT 0.2 AMPS 30 VOC
                                                                                                                             16
             56722
           117184
       5
            725570
                                                                                                                              1
                                                                                                                                  5
                                 . WASHER, LOCK-EXT TEETH 15/32 ID X 3/4 00
      6
           159373
      7
           216323
                                      NUT, STEEL, CHROMIUM,
                                                                                                                                  1
           179744
                                      NUT, PLAIN, RO- 15/32-32 X 39/64 DIA
                                                                                                                                  3
      3
           257187
                                 . . MACHINE SCREW HEXAGON
      9
           302090
                                      CONNECTOR, RECP, ELEC- 24 FEMALE CONTACTS
     10
           302131
                                 . . STRIP-TERMINAL BLOCK INSULATOR
   _
     11
           344015
                                 . . NUT, SELF LKG, HEX- 6-32 X 5/16 FL W
                                                                                                                                 1

SWITCH, ROTARY, 1 DECK, 1 POLE, 7 POS.
SWITCH, ROTARY, 1 DECK, 1 POLE, 7 POS.
KNOB-BAR TYPE WITH POINTER
NUT, PLAIN, HEX- 15/32-32 X 9/16 FL W
     12
           354167
   _
     12
          2181235
   - 12A
           317173
  - 12B
           179743
                                                                                                                              2
                                                                                                                                 3
  - 12C
           35B789
                                 . . RESISTOR ASSEMBLY
                                                                                                                              2
                                                                                                                                 3
  - 13
           35BB44
                                 . . SWITCH, PUSH
  - 14
                                                                                                                              1
           369218
                                   . SEMICONOUCTOR DEVICE, DIGGE
                                                                                                                              5
                                        INDEX 15 DELETED
  - 16
           555049
                                      SWITCH+LEVER-SHCRTING 2P 3 POS
                                                                                                                             8
                                • SCREW, PAN HEAD, 6-32 X .25 LONG
• SCREW, PAN HEAD, 6-32 X .75 LONG
  - 17
           731626
  - 18
           731627
                                                                                                                                 1
  - 1B
           811426
                                . . SCREW, MACH-PAN HO 6-32 X 3/8 IN. LG
     18
           B11417
                                     SCREW, HEX SOCKET H- 6-32 X 1/2 LG
     19
           73487B
                                . . SWITCH, TOGGLE, SPOT, CENTER OFF
           73BB26
                                . . SWITCH, TOGGLE . JUMPER ASSEMBLY
     20
  - 20A
           740550
                                                                                                                                 2
  - 21
           765748
                                     SWITCH, TOGGLE
SWITCH, TOGGLE, DPOT,
  - 2ī
           734B79
  - 22
                                  . EXTENDER, CARD, 6 PAC
           811363
                                                                                                                            10
                                                                                                                                 6
  - 22
           811363
                                . . EXTENDER, CARO, 6 PAC
                                                                                                                            18
                                                                                                                                 7
  - 23
          811426
                                     SCREW, MACH-PAN HO 6-32 X 3/8 IN. LG
  - 23
                                                                                                                                 1
          811417
                                     SCREW, HEX SOCKET H- 6-32 X 1/2 LG
                                                                                                                             2
                                                                                                                                 5
  - 23A 2100B73
                                     RESISTOR ASM
                                                                                                                             1
                                                                                                                                 2
  - 238
          B11802
                                     GUI DE-CARD
                                                                                                                             1
                                                                                                                                 3
    230
          811802
                                     GUIDE-CARD
                                                                                                                                 ž
                                                                                                                             1
    230
          B13179
                                     CLAMP-80ARO
    24
         2180972
                                  . CLAMP, PADOLE CONNECTOR, SLT
                               • CLAMP, SLT CARD
• SCREW, SELF TAPPING, 6-32 X .375 LG.
• SCREW, SELF TAPPING, 6-32 X .375 LG.
• SCREW, MACH-81ND HD 6-32 X 3/8 LG
                                                                                                                                1
                                                                                                                             1
    24A 2180973
    25 2181005
25A 2181005
                                                                                                                                6
                                                                                                                                6
    25A
           B1693
                                                                                                                             9
                                    8RACKET, 80ARO MOUNTING
PANEL, CE BOX
    26
        2181101
    26A 2181102
    27
         21B1104
                                     CASE ASSEMBLY, CE BOX
                                                                                                                             1
                                                                                                                                6
  - 27
         2181141
                                     CASE ASSEMBLY-CE BOX
                                                                                                                             1
                                                                                                                                7
                                       INCEXES 2B THRU 30 DELETED
  - 31
         2181106
                                     PARTITION, CABLE
                                                                                                                             1
   32
         2181110
                                    BOARO ASSEMBLY
         2181112
                                                                                                                             1
                                    CABLE ASSEMBLY, CE TEST BOX
                                                                                                                             1
                                       SEE LIST 19-3C, 40, 7A, 7C, 17, 20, 5B, 62 AND 73 FOR COMPONENT PARTS
 - 34
        2181113
                                    CABLE ASSEMBLY, CE BOX TO FILE
                                                                                                                            1
                                                                                                                                В
                                       SEE LIST 19-20, 55, 73, 74, 76 AND 77 FOR COMPONENT PARTS
                               - CABLE ASSEMBLY, CE BOX TO FILE
- JUMPER ASSEMBLY, 3-1/4 INCHES LONG
- SERIAL TAG, FILE TEST BOX
- FOAM, 9 X 6, .13 THICK
   34
        2244951
                                                                                                                                9
 - 35
        2181117
   36
         2181119
                                                                                                                            1
   37
         21B1133
                                                                                                                            1
   3B
         2191846
                                    SCREW-EDGE CONNECTOR MOUNTING
                                                                                                                            1
   39
         5353BB3
                                    INDICATOR ASSEMBLY, AMBER- 3 VOLT
        5353BB7
    40
                                    HOUSING, LAMP
    41
         53538B9
                                    INDICATOR ASSEMBLY-3 VOLT
                                                                                                                            8
        157004B4
                                    SCREW, SELF TAPPING, 4-40 X .375 LG.
```



LIST AND INGEX ND.	PART ND.	1 2 3 4	UNITS PER ASM•	USABLE ON CODE
- 5A - 5A - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 16A - 17 - 18 - 20 - 20A - 21 - 22 - 22A - 22A - 22B - 22C - 23 - 24 - 25 - 26 - 27 - 28 - 29	2200014 37913 55901 257189 338169 317173 2181234 539691 220032 300793 2178596 2178597 2181100 2181103 2181107 2244948 2181114 37913 150209 438552 595720 811804 2180973 2181109 5800634 5801246 2181094 2181115 812193 2181116 253453 812193 5362301 2181129 2181132 5319854 5353883 5353887 5353889 5700484 5801245	CDDE 1 USED DN ASM PRIDR TD 86 SUFFIX CDDE 2 USED DN ASM FROM 86 TD CURRENT CDDE 3 USED DN ASM FROM 86 TD CURRENT CDDE 4 USED DN ASM FROM 86 TD CURRENT INDICATOR 80X ASSEMBLY SEE LIST 17-1 FOR NEXT HIGHER ASM. AND FIGURE 17B FOR ILLUSTRATION NUT, HEX., 4-40 X 1/4 W LOCKMASHER, EXTERNAL TODTH NUT, HEX., 8-32 X 0.3438 W MASHER, LOCK-EXT TEETH ND. 4 X 9/32 OD SMITCH, ROTARY SMITCH, 40 DECK, 16 PDLE, 4 POSITION NUT, PLYAIN-HEX-376-32 X 1/2 FL W KNOB, SMITCH GROMMET, NYLATCH PLUNGER, MYLATCH PLUNGER, MYLATCH PLUNGER, MYLATCH PLATE, SUPPORT CABLE ASSEMBLY, 1NDICATOR 80X PLATE, SUPPORT CABLE ASSEMBLY, 1NDICATOR 80X TO FILE BREAKDOUN NOT AVAILABLE CABLE ASSEMBLY, 1NDICATOR 80X TO FILE SREW, MACH BINDING HD 4-40 X 3/4 LG RIVER-ROLLEO FLANGE SUPPORT, CARD CARD ASSEMBLY, SLT CARD ASSEMBLY, SLT CARD ASSEMBLY, SLT CARD ASSEMBLY, SLT LABEL, IDENTIFICATION CABLE ASSY. SELECT SMITCH TO FILE CONN BOARD, SET CARD TERMINAL LABEL, IDENTIFICATION CABLE ASSY, SELECT SMITCH TO FILE CONN BOARD, SET CARD TERMINAL LABEL, IDENTIFICATION CABLE ASSY, SELECT SMITCH TO FILE CONN BOARD, SET CARD TERMINAL LABEL, IDENTIFICATION CABLE ASSY, SELECT SMITCH TO FILE CONN BOARD, SET CARD TERMINAL LABEL, IDNICATOR BOX LOGIC SERIAL TAG, INDICATOR BOX LOGIC SERIAL TAG, INDICATOR BOX SCREW, SELF TAPPING, 8-32 X .375 LDNG INDICATOR ASSEMBLY, SLT LABEL, INDICATOR BOX LOGIC SERIAL TAG, INDICATOR BOX SCREW, SELF TAPPING, 8-32 X .375 LDNG INDICATOR ASSEMBLY, SLT LABEL, INDICATOR BOX SCREW, SELF TAPPING, 8-32 X .375 LDNG INDICATOR ASSEMBLY, SLT LABEL, SLE TAPPING, 8-32 X .375 LDNG INDICATOR ASSEMBLY, SLT LABEL, SLE TAPPING, 8-40 X .375 LG. CARD ASSEMBLY, SLT LABEL, SLE TAPPING, 8-40 X .375 LG.	REF 11111122411111112211111112011111112011111111	4 22111

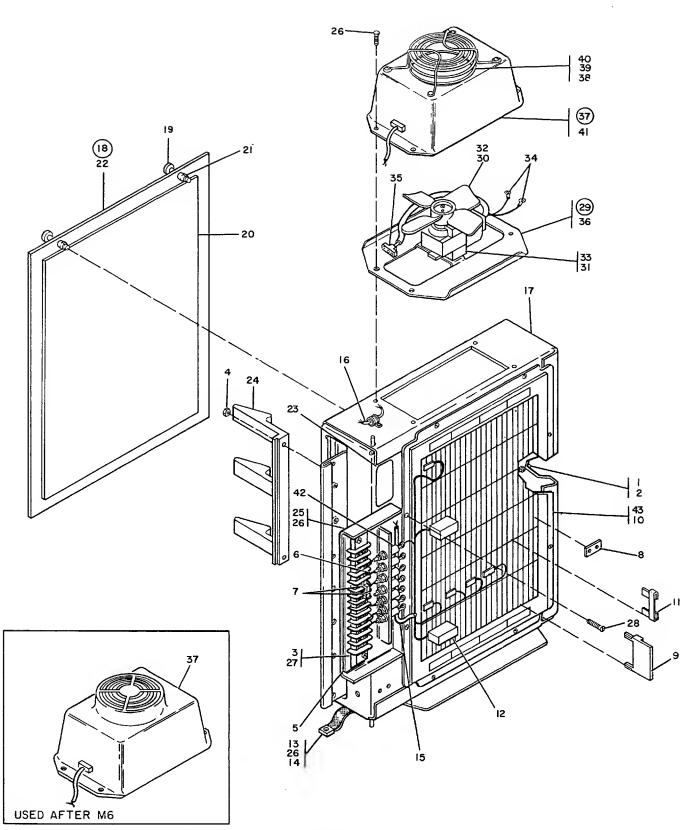


FIGURE 17C. GATE ASSEMBLY. SEE LIST 17C.

	LIST AND INOEX NO.	PART NO.	DESCRIPTION 1 2 3 4	UNITS PER ASM•	USABLE ON CODE
			GATE ASSEMBLY		
*	170-		COOE 1 USEO ON ASM PRIDR TO S6 SUFFIX CODE 2 USED ON ASM FROM S6 TO CURRENT		
****	- 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 27 - 28 - 30 - 31 - 33 - 33 - 33 - 33 - 33 - 37 - 37 - 38 - 39 - 37 - 37 - 38 - 39 - 40 - 41 - 42	234318 257189 320451 344015 550578 596481 730468 811090 811363 811417 811804 813197 2101089 2125765 2180683 2180720 2180720 2180727 2180733 2180797 2180797 2180974 2180974 2181005 2181005 2181085 2181085 2181385 2863 32042 171485 172999 609687 725558 2181398 2244018 2181399 72828 45690 186758 2244021 597347 2181331 2192509 5811144	CATE ASSEMBLY USEO DOM MACHINES FROM A6 TO CURRENT SEC LIST 1- 61 FOR NEXT HIGHER ASM. AND FIGURE 17C FOR ILLUSTRATION. SCREM-HASMD MASHER-FIL H 8-32 X 3/8 LG. NUT - HEX-8-32UNC THO TERMINAL BOARD - 10 OBL SCREW TERMINALS. NUT, SELF LKG, HEX-6-32 X 5/16 FL W. MANKER STKIP-10 POS NOS. 1 THRU 10 JUMPER ASSEMBLY JUMPER TERMINAL STRIP LOCATOR-OVAL EXTENDER, CARD, 6 PAC SCREW, HEX SOCKET H-6-32 X 1/2 LG. GUIOC, CARD HOUSING-TERMINAL STRAP, FAGNUNG, 51B X 7 IN. LOCKMASHER, DISHEO CABLE ASSEMBLY-GATE DC JUMPER SEE LIST 19-4, -29, -30, -65, -66 AND -66A FOR COMPONENT PARTS CABLE ASSEMBLY-GATE FAN SEE LIST 19-4, -29, -30, -55, -66 AND -66A FOR COMPONENT PARTS GATE RIDWER ASSEMBLY COVER ASSEMBLY. COVER ASSEMBLY. COVER ASSEMBLY. FOR MACHINER SEBBLY COVER SCHEMEY. FOR MACHINER SEBBLY COVER SCHEMEY. SCREW. FAN ASSEMBLY-GATE OECAL, OC TB AND TEST POINTS CLAMP, PADOGLE CONNECTOR, SLT SCREW, SELF TAPPING, 6-32 X .625 LG. SCREW. FAN ASSEMBLY-GATE SCREW, SELF TAPPING, 6-32 X .625 LG. SCREW. FAN ASSEMBLY-GATE SCREW, MACH-RH 3-48 X 0.250 LG SCREW. FAN ASSEMBLY-GATE SCREW, MACH-RH 3-48 X 0.250 LG SCREW. FAN ASSEMBLY, FAN HOUSING, FAN HOUSING, FAN HOUSING GREAKCOUN FOR ASM 2181399 ONLY MACHINER FAN HOUSING ASSEMBLY, FAN HOUSING, FAN CAPACATOR, FXO-0.1 UF100V BOARD. BOARD. SCREW, MACH-BINO HO B-32 X 7/16 LG FASTERBER PUSH HOUSING ASSEMBLY AND ASSEMBLY	REF 1 1 1 2 1 7 7 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1	21 1212

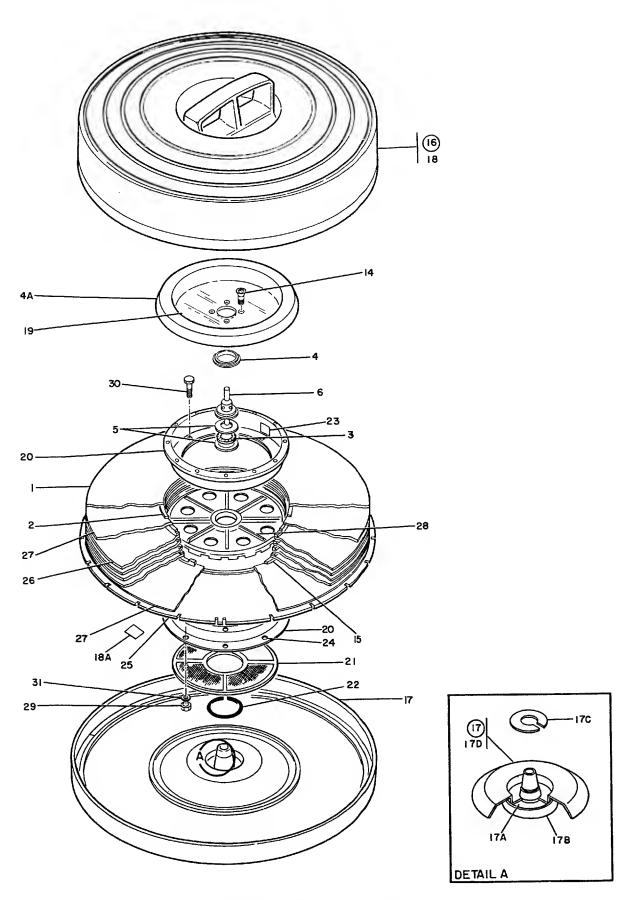


FIGURE 18. DISK PACK ASSEMBLY. SEE LIST 18.

INDEX NO.	PART NO.	DESCRIPTION 1 2 3 4		UNITS PER ASM•	USABL ON CODE
18 - - - 1 - 2 - 3 - 4 - 4A - 4A	2162852 2200018 2154061 2154069 2154252 2157651 2218103 2162871 2160837 2218117 2160846	OISK PACK ASM CDOE A USED ON RED OISK PACK ASM FROM F5 TO CURRENT COOE 8 USEO ON YELLOW DISK PACK ASM CODE 1 USEO ON ASM PRIOR TO L6 SUFFIX CDDE 2 USED ON ASM FROM L6 TO CURRENT CODE 3 USED ON ASM PRIOR TO 87 SUFFIX CODE 4 USEO DN ASM FROM 87 TO CURRENT PACK ASM, DISK SEE FIGURE 18 FOR ILLUSTRATION PACK ASSEMBLY-DISK SEE FIGURE 18 FOR ILLUSTRATION OISK, TOP COVER SHIM, OISK PACK 8 BLL RETAINER BUSHING, OISK PACK SCREW SHIELD, CE OISK PACK TRIM SHIELD, CE OISK PACK TRIM SHIELD, OISK PACK TRIM-REO SHIELD, OISK PACK TRIM-PELLOW WASHER, THRUST, 1.180 OD WASHER, THRUST, 1.180 OD WASHER, THRUST, OISK PACK LOCKING	a n	REF REF 1 1 1 1 1 1 1 2 2	A 8 1 2 8 1 2
- 17 - 17 - 17A - 17B - 17C - 17D - 18 - 18A - 18A	2160861 251970 2162559 2162663 2157683 2244031 2157682 2244027 2244028 2244038 2157684 2162691 2162692 2162891 2157673	PARTS OF THIS ASM ARE NDT REPLACEABLE SCREW, FLAT HD, 4-40 X 1/4 LG SCREW-MACH 80. HD. 4-40 X 1/4 LG SPACER, DISK PACK COVER ASSEMBLY, DISK PACK 80 TTDM COVER ASSEMBLY, OISK PACK TOP MASHER, BEARING MASHER, RETAINING MASHER, RETAINING COVER ASSEMBLY, DISK PACK TOP SERIAL PLATE, SALE SERIAL TAG, OISK PACK SERIAL TAG, OISK PACK SERIAL TAG, OISK PACK SERIAL PLATES ARE NOT PART OF THIS ASSY.	н	4 4 4 1 1 1 1 1 1 1 AR AR AR	1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 8 8
- 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28	2162772 2162836 2162837 2162840 2162841 2162842 2162854 2162857 2162858 2162873 2180870 2180871 2180872	OROER SEPARTELY, AS REQUIRED DECAL, DISK PACK CLAMP, RING DRUM FILTER, DISK PACK ORING WEIGHT, BALANCE, DISK PACK TRIM BUTTON, DISK PACK OISK, SECTOR DISK, COATEO, CENTER OISK, COATEO, ENO HUB, OISK PACK NUT, SEMI-FINISHEO HEXAGON, .25-20 LNC SCREW, HEX CAP. 25-20 X 1-125 LONG WASHER, .250 IO X .500 OO .400 THICK		1 2 1 1 1 6 1 4 2 1 6 6 6	В

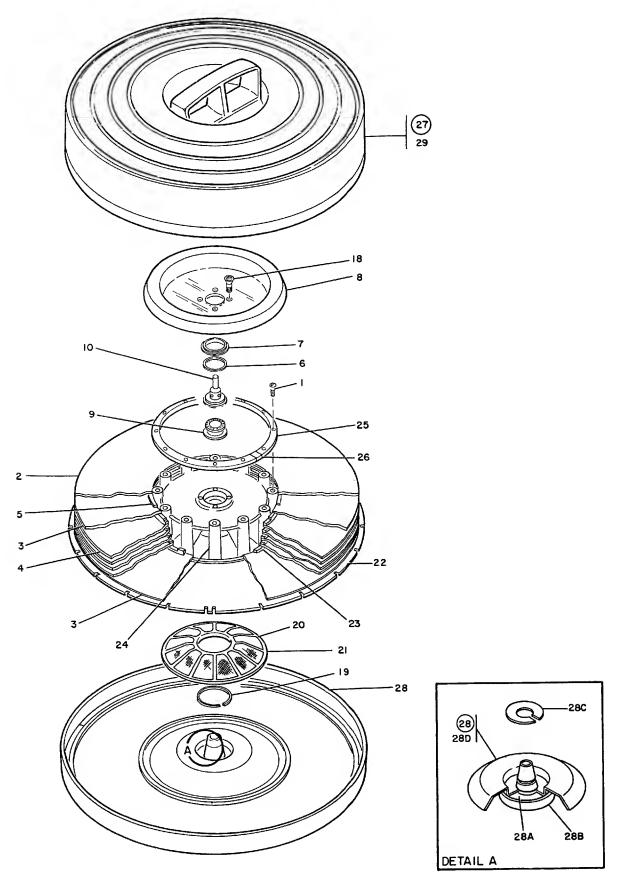


FIGURE 18A. DISK PACK ASSEMBLY. SEE LIST 18A.

	LIST AND INDEX NO.	PART NO.	DESCRIPTION 1 2 3 4		UNITS PER ASM.	USABLE ON COOE
*	18A-		OISK PACK ASSEMBLY CODE 1 USED ON ASM PRIOR TO B7 SUFFIX			
*	-	2162601	PACK ASSEMBLY, OISK		REF	
		38575 2154061		α	12	
	- 4	2154063 2154064 2154069	- DISK, COATEO CENTER	¤ ¤	2 4 2	
	- 7 - 8 - 9	2154096 2154252 2157651 2160837 2160846	BALL RETAINER BUSHING, DISK PACK SCREW SHIELD, DISK PACK TRIM-RED WASHER, THRUST, 1-180 DD SCREW ASSEMBLY, DISK PACK LOCKING	-	1 1 1 1	
	- 19 - 20 - 21	2160861 2162529 2162552 2162555 2162558	PARTS OF THIS ASM ARE NOT REPLACEABLE SCREW, FLAT HD, 4-40 X 1/4 LG RING, RETAINING ELEMENT, FILTER RETAINER, FILTER		4 1 1	
	- 23 - 24 - 25 - 26	2162559 2162559 2162560 2162563 2162597 2162663	- SPACER, DISK PACK - ORUM, DISK PACK - RING, DISK PACK	0 0 0 0	1 5 1 1	
* * * * * *	- 28 - 28 - 28A - 288 - 28C	2157683 2244031 2157682 2244027 2244028 2244038	COVER ASSEMBLY, DISK PACK BOTTOM COVER ASSEMBLY, DISK PACK TOP WASHER, BEARING KNOB WASHER, RETAINING		1 1 1 1 1 1	1 2 2 2 2
		2157684	COVER, DISK PACK, BOTTDM - COVER ASSEMBLY, DISK PACK TOP		1	2
1						

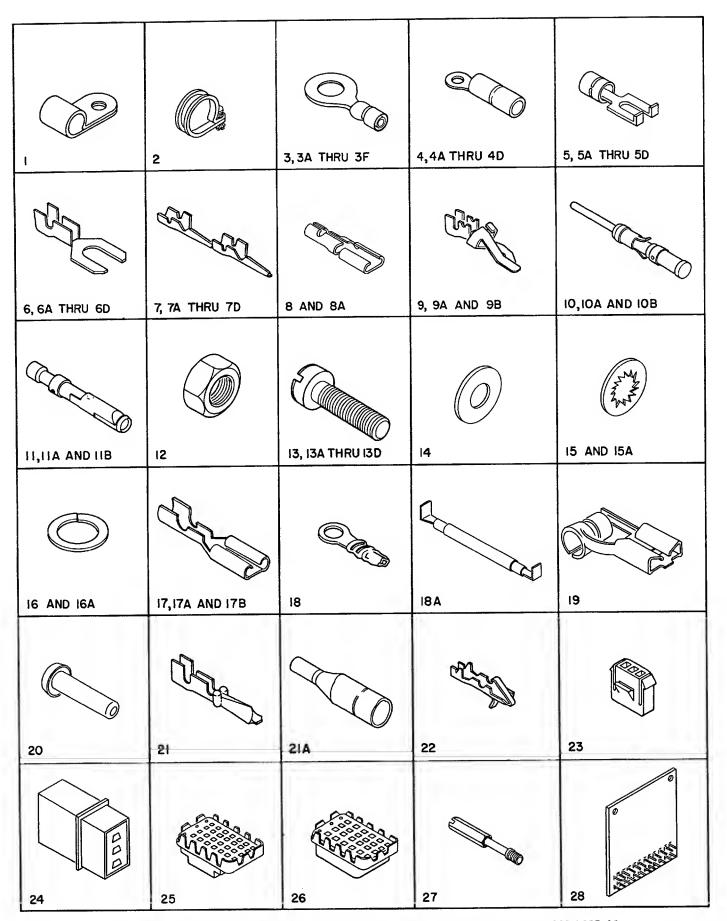


FIGURE 19. CABLE AND JUMPER ASSEMBLY COMPONENT PARTS. SHEET 1 OF 3. SEE LIST 19.

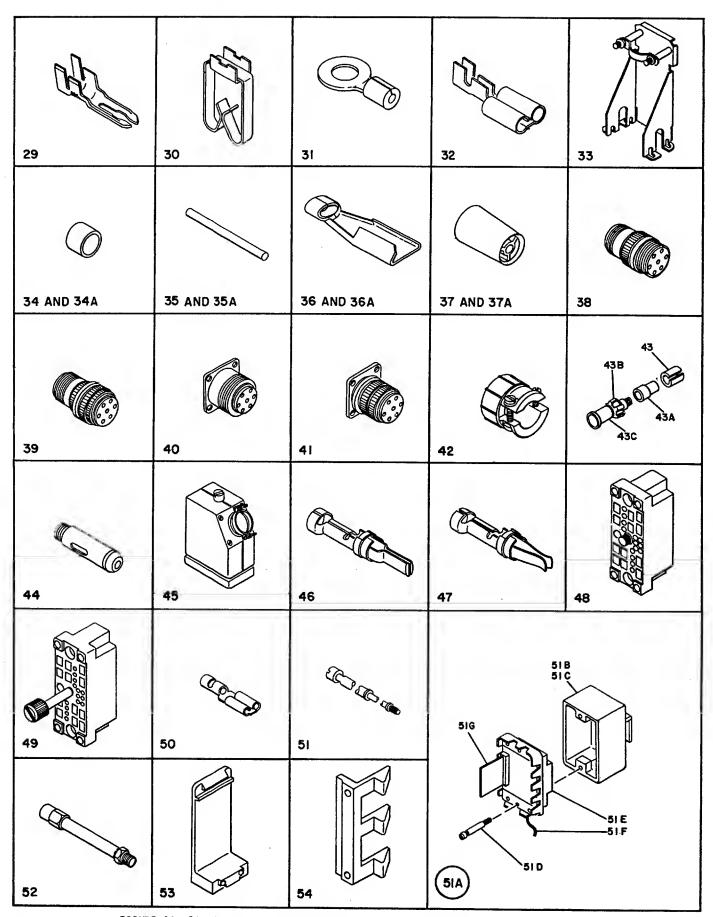


FIGURE 19. CABLE AND JUMPER ASSEMBLY COMPONENT PARTS. SHEET 2 OF 3. SEE LIST 19.

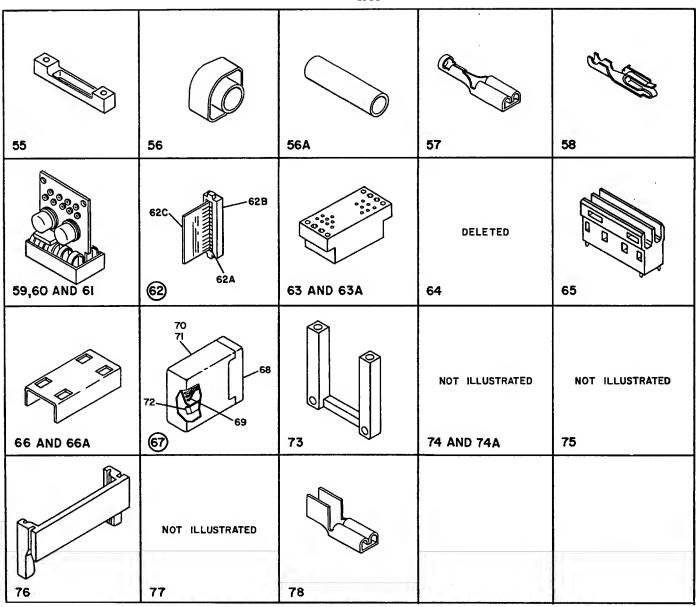


FIGURE 19. CABLE AND JUMPER ASSEMBLY COMPONENT PARTS. SHEET 3 OF 3. SEE LIST 19.

LIST AND INDEX NO.	PART NO.	1 2 3 4	UNITS PER ASM.	US ABL ON CODE
		CABLE AND JUMPER ASSEMBLY COMPONENT PARTS		
19 -	NO NO.	COMPONENT PARTS, CABLE AND JUMPER ASM. SEE FIGURE 19 FOR ILLUSTRATION	REF	
- 1	357433	. CLAMP, CABLE187 OTAMETER	AR	
- 1	356742	. CLAMP, CABLE250 OIAMETER	AR	
- 1	2102364	- CLAMP, CABLE220 TO .270 OIA.	AR	
- 1	2102365	. CLAMP, CABLE330 TO .420 OIA.	AR	
- 1	350663	- CLAMP, CABLE440 DIAMETER	AR	
- 1	2102366	- CLAMP, CABLE470 TO .520 DIA.	AR	
- 1	350664	- CLAMP+ CABLE560 OIAMETER	AR	1
- 1	2114108	- CABLE+ .0562 OIAMETER	AR	
- 1	327922	- CLAMP+CABLE	AR	
- 1	2114056	- CLAMP, CABLE6BB OIAMETER	AR	
- 1	2102367	- CLAMP, CABLE700 TO .780 OIA.		
- 1	327923	. CLAMP. CABLE875 DIAMETER		
- 1	2102368	. CLAMP. CABLEBBO TO 1.060 OTA.	AR AR	
- 1	2102370	- CLAMP, CABLE-2.050 DIAMETER		
- 1	2102369	. CLAMP, CABLE-1.230 TO 1.550 OIA.	AR	

LIST AND INDEX NO.	PART ND.	DESCRIPTION 1 2 3 4	UNITS PER ASM•	USABL GN CDDE
		CABLE AND JUMPER ASSEMBLY COMPONENT PARTS -CONT		0000
19 - 2	2162901	• CLAMP, BLACK, BLACK-FASTENER, 1/4 DIA.	AD	
	2162902	- CLAMP, BLACK, BLACK-FASTENER, 5/16 DIA.	AR AR	1
	2162903	. CLAMP, BLACK, BLACK-FASTENER, 3/8 DIA.	AR	1
	2162904	- CLAMP, BLACK, BLACK-FASTENER, 7/16 DIA.	AR	1
	2162905 2162906	- CLAMP, BLACK, BLACK-FASTENER, 1/2 DIA.	AR	İ
- 2	2162907	CLAMP, BLACK, BLACK-FASTENER, 9/16 DIA. CLAMP, BLACK, BLACK-FASTENER, 5/8 DIA.	AR	ļ
	2162908	. CLAMP, BLACK, BLACK-FASTENER, 11/16 DIA.	AR AR	
	2162909	. CLAMP, BLACK, BLACK-FASTENER, 3/4 DIA.	AR	i
	2162910	• CLAMP, BLACK, BLACK-FASTENER, 13/16 DIA.	AR	
	2162911	. CLAMP, BLACK, BLACK-FASTENER, 7/8 DIA.	AR	!
	2162912 2162913	CLAMP, BLACK, BLACK-FASTENER, 1.00 DIA. CLAMP, BLACK, BLACK-FASTENER, 1-1/8 DIA.	AR	
	2162914	. CLAMP, BLACK, BLACK-FASTENER, 1-3/16 DIA	AR AR	1
_	2162915	. CLAMP, BLACK, BLACK-FASTENER, 1-1/4 DIA.	AR	İ
	2162916	. CLAMP, BLACK, BLACK-FASTENER, 1-3/8 DIA.	AR	
	2162917	- CLAMP, BLACK, BLACK-FASTENER, 1-1/2 DIA.	AR	
	216291B 2162919	CLAMP, BLACK, WHITE-FASTENER, 1/4 DIA.	AR	
	2162920	• CLAMP, BLACK, WHITE-FASTENER, 5/16 DIA. • CLAMP, BLACK, WHITE-FASTENER, 3/8 DIA.	AR	
_	2162921	. CLAMP, BLACK, WHITE-FASTENER, 7/16 DIA.	AR AR	
	2162922	- CLAMP, BLACK, WHITE-FASTENER, 1/2 DIA.	AR	
	2162923	. CLAMP, BLACK, WHITE-FASTENER, 9/16 DIA.	AR	
	2162924	- CLAMP, BLACK, WHITE-FASTENER, 5/8 DIA.	AR	
	216292 5 2162926	. CLAMP, BLACK, WHITE-FASTENER, 11/16 DIA.	AR	
	2162927	. CLAMP, BLACK, WHITE-FASTENER, 3/4 DIA CLAMP, BLACK, WHITE-FASTENER, 13/16 DIA.	AR	
	2162928	. CLAMP, BLACK, WHITE-FASTENER, 7/8 DIA.	AR AR	
- 2	2162929	. CLAMP, BLACK, WHITE-FASTENER, 1.00 DIA.	AR	
	2162930	- CLAMP, BLACK, WHITE-FASTENER, 1-1/8 DIA.	AR	
	2162931	- CLAMP, BLACK, WHITE-FASTENER, 1-3/16 DIA	AR	
	2162932 2162933	. CLAMP, BLACK, WHITE-FASTENER, 1-1/4 DIA. CLAMP, BLACK, WHITE-FASTENER, 1-3/8 DIA.	AR	
	2162934	- CLAMP, BLACK, WHITE FASTENER, 1-1/2 DIA.	AR AR	
- 3	186968	- TERMINAL, LUG	AR	
- 3A	253453	. TERMINAL, RING TONGUE	AR	
- 38	334910	• TERMINAL, LUG-14-16 AWG ND. 6 MTG HDLE	AR	
- 3C	334921	• TERMINAL, LUG-16-22 AWG ND. 6 MTG HDLE	AR	
- 3D - 3E	334932 360370	• TERMINAL, LUG 16-22 AWG NO. 10 • TERMINAL, LUG-14-16 AWG NO. 8 MTG HDLE	AR	
- 4	92784	. TERMINAL, LUG	AR	
- 4A	253740	. TERMINAL, LUG-INSULATED NO. 6 MTG HDLE	AR AR	
	2101326	. TERMINAL, LUG- 10-12 AWG ND. 10 MTG HOLE	AR	
	2101327	• TERMINAL • INSULATED	AR	
- 40 - 5	236915	TERMINAL-CONTACT FEMALE 20-18 AWG	AR	
- 5A	92786 255994	• TERMINAL,LUG • TERMINAL-SPADE 16-20 AWG	AR	
- 58	368222	. TERMINAL, ND. B STUD 16-14 WIRE	AR AR	
- 5C	603152	. TERMINAL	AR	
- 5D	1119009	. LUG, TERMINAL	AR	
- 6	186963	• TERMINAL,	AR	
- 6A - 68	186965 186967	. TERMINAL, LUG-SPADE	AR	
- 6C	187460	• TERMINAL, LUG- 20-26 AWG NO. 6 MTG SLDT • TERMINAL, LUG, 20,22,24 AWG-NO.B HDLE	AR AR	
- 60	313361	. TERMINAL, LUG- 20-24 AWG ND. 4 MTG SLDT	AR	
- 7	135052	- TERMINAL, TAPERED	AR	
- 7A	187243	- CDNNECTDR, TAPERED, 20 AWG WIRE	AR	
- 7B	320167	- CONNECTOR, TAPERED	AR	
- 7C	360433 600844	. CONNECTOR, TAPERED, 16 OR 18 AWG WIRE . TERMINAL, SMALL TAPER, 55-24 AWG	AR AR	
	1142155	. TERMINAL, CRIMP, 22-24 AWG	AR AR	
	2114531	• TERMINAL	AR	
- 9	598041	• CDNTACT	AR	
- 9A	631644	. CONTACT, DUAL MINIATURE, 24-26 AWG	AR	
- 98	736547	. CONTACT, MINIATURE QUAL, 20-22 AWG	AR	
	212225B 2122260	. PIN, CDNTACT . PIN, CDNTACT LDNG	AR AR	
	2122260 2127867	• PIN, CONTACT LDNG • PIN-CONTACT	AR AR	
	2122259	. SOCKET, CONTACT, 20 OR 22 AWG WIRE	AR	
4	2122261	. SOCKET, CONTACT, 16 OR 18 AWG WIRE	AR	
- 118	2127890	SOCKET, CONTACT, 24-26 AWG	AR	
- 12	37913	. NUT, HEX., 4-40 X 1/4 W	AR	
- 13	38264 38364	SCREW, MACH-FIL H 4-40 X 3/8 LG	AR	
- 13A - 13B	38354 205652	• SCREW.MACH-FIL H 6-32 X 1/2 LG	AR	
- 13C	205652 438552	SCREW, MACH-FIL H 2-56 X 5/8 LG SCREW, MACH BINDING HD 4-40 X 3/4 LG	AR AR	
- 130	438549	• SCREW, MACH-BIND HD 4-40 X 7/16 LG	AR	

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CABLE AND JUMPER ASSEMBLY COMPONENT PARTS -CONT
19 - 14
            138281
                                    WASHER,.125 I.D.-5/16 C.D.X .J62 THICK
      15
            150269
                                    LOCKWASHER
                                                                                                                               AR
      15A
            257985
                                    WASHER, FLAT,
                                                     1/8 IO X 1/4 ND
                                                                                                                               ٨R
                                    WASHER, LOCK-EXT TEETH NO. 8 x 0.381 00 WASHER, LOCK-EXT TEETH NO. 4 x 9/32 0D
   - 16
             55901
                                                                                                                               ΔR
   - 16A
            338169
                                                                                                                               ΔR
      17
            236916
                                    TERMINAL + 22-24 AWG
                                                                                                                               AR
   - 17A
            339156
                                    CLIP, TERMINAL
                                                                                                                               ΔR
     178
            523181
                                    TERMINAL, QUICK DISCONNECT- 18/22AWG
                                                                                                                               AR
                                    TERMINAL . LUG-14-16 AWG NO. 10 MTG HOLE
     18
            359695
                                                                                                                               AR
   - 18A
            317399
                                    LUG, TERMINAL, 90 DEGREE ANGLE
                                                                                                                               AR
     19
            517913
                                    CLIP
      20
            595720
                                    RIVET, ROLLEO FLANGE
                                                                                                                               AR
            550501
                                    RECEPTACLE-TAPER PIN
      21
                                                                                                                               AR
     21A
            591649
                                    TERMINATION, COAXIAL
                                                                                                                               AR
      22
            609687
                                    CONTACT
                                                                                                                               AR
            725557
                                    PLUG, CONNECTOR, 3 CIRCUIT
                                                                                                                               AR
      24
            725558
                                    CONNECTOR
                                                                                                                               ΔR
                                    HOUSING, CONNECTOR, 132 POSITION, MALE HOUSING, CONNECTOR, 132 POSITION, FEMALE
   - 25
            738843
                                                                                                                               AR
     26
            738844
                                                                                                                               ΔR
     27
            744606
                                    JACKSCREW, 6-32 X I.333 LDNG
                                                                                                                               AR
                                    80ARD, ETCHED, RT. ANGLE CONNECTOR
TERMINAL, DISCRETE WIRE, 22-26 AWG
     28
            812193
                                                                                                                               AR
            813195
     29
     30
            813681
                                    CONTACT, MINIATURE BUS
                                                                                                                               AR
           1092019
                                    TERMINAL, RING .145 MOUNTING HOLE
     31
     32
           2123393
                                    TERMINAL
                                                                                                                               AR
                                    CLAMP, STRAIN RELIEF, 104 POSITION
FERRULE, 453 OUTSIDE AND 400 INSIDE DIA
FERRULE, 337 OUTSIDE AND 297 INSIDE DIA
     33
           2127857
                                                                                                                               AR
           2152788
                                                                                                                               ΔR
     34A 2152789
                                                                                                                               AR
AR
                                    CONTACT, SINGLE WIRE
   - 35
          2154243
                                    CONNECTOR, MINIATURE, 5-PIN FEMALE
CONNECTOR, GOLO,W/O DIMPLES,20-22 WIRE
CONNECTOR, GOLO,WITH DIMPLES,20-22 WIRE
     35A 2154357
                                                                                                                               ΔR
     36
          2154868
                                                                                                                               AR
     36A 2154888
                                                                                                                               AR
                                    FERRULE, SHIELOED WIRE, .150 IC
SLEEVE, INSULATING
     37
          2178469
                                                                                                                               AR
     37A 2178470
                                                                                                                               AR
                                    CONNECTOR, CABLE, 7 POSITION, FEMALE PLUG, STRAIGHT, 7 POSITION, MALE
     3.8
           2180659
                                                                                                                               AR
      39
           2180660
           2180661
                                    RECEPTACLE, CABLE, 7 POSITION, FEMALE
                                                                                                                               AR
                                    PLUG, BOX TYPE, 7 POSITION, MALE
                                                                                                                               AR
          2180662
     42
           2180663
                                    CLAMP, CABLE
                                                                                                                               ΔR
                                    BUSHING, ALIGNMENT, COAX CONNECTOR FERRULE, COAX CONNECTOR
     43
          2180664
                                                                                                                               AR
   - 43A
          2180665
                                                                                                                               ΔR
                                    SPRING, RETENTION, COAX CONNECTOR
SOCKET, COAX CONNECTOR
   - 438 2180666
                                                                                                                               AR
   - 43C 218C667
                                                                                                                               AR
                                    PIN. COAX CONNECTOR
   - 44
                                                                                                                               AR
          2180668
                                    CONNECTOR, 30 POSITION, POWER TERMINAL, MALE
                                                                                                                               AR
     45
          2180669
           2180670
     46
                                    TERMINAL, FEMALE
          2180671
          2180672
                                    SLOCK, RECEPTACLE, 29 POSITION
     48
                                                                                                                               AR
          2180673
                                    8LOCK, PLUG, 29 POSITIONS
                                                                                                                               AR
   - 51
          2180716
                                    JACKSCREW, MALE, 8-32
                                                                                                                               ΔR
                                    PLUG ASSEMBLY, TERMINATOR
     51A 2180746
                                                                                                                               AR
                                    . SCREW, LOCKWASHER AND, 6-32 X .438 LG
      51B
           170225
   - 51C 2122627
                                    . SHIELD ASSY
                                    . JACKSCREW, LONG
     51C
            738842
                                    . HOUSING, CONNECTOR, 132 POSITION, MALE . JUMPER ASSEMBLY, 1.50 LONG
      51F
           738843
      51F
          2180747
                                                                                                                               25
      51G 5800736
                                       TERMINATOR, LINE
      52
          2180796
                                     JACKSCREW, FIXED
           2180914
                                    RETAINER,
                                                                                                                               AR
                                    CLAMP, PADOLE CONNECTOR, SLT
CLAMP, SLT CARD
          2180972
                                                                                                                               AR
      55
          2180973
                                                                                                                               AR
      56
          2184182
                                    FERRULE, SHIELOED WIRE
                                                                                                                               AR
                                    SLEEVE, INSULATING
      56A
          2184183
                                                                                                                               ΔR
                                    TERMINAL, QUICK DISCONNECT, 18-22 AWG
CONTACT, LARGE SERPENT, 20-24 AWG
                                                                                                                               AR
      57
           5213274
      58
                                                                                                                               AR
           5362301
                                    CARD ASSEMBLY, INDEX PREAMP
CONNECTOR, CYLINDER PREAMP
CONNECTOR, DETENT PREAMP
      59
           5805007
                                                                                                                               AR
           5805008
                                                                                                                               AR
      60
           5805009
                                                                                                                               AR
      61
                                    CARO ASSEMBLY, SIGNAL TERMINATOR
           5800610
                                                                                                                               AR
      62
      62A
            811300
                                    . CONTACT, SIGNAL TERMINATOR CARO
                                                                                                                               21
      628
            811304
                                      HOUSING, CONTACT
     62C
            811715
                                       CARD, SIGNAL TERMINATOR
                                    CONNECTOR, PLUG, ELEC-75 MALE CONTACTS
CONNECTOR, RECP, ELEC-MINI 75 FEMALE CONT
      63
           2127854
                                                                                                                               ΔR
      63A 2127855
                                                                                                                               AR
                                         INDEX 64 DELETED
                                  . HOUSING
   - 65
            813801
                                                                                                                               AR
   - 66
                                    COVER
                                                                                                                               AR
            813802
   - 66A
            811494
                                    COVER- 4 PIN 8LK FOR HOUSING P/N 811486
                                                                                                                               AR
           2181201
                                    PLUG ASSEMBLY-TERMINATOR
                                                                                                                               AR
      67
                                  . . CONNECTOR, PLUG, ELEC-75 MALE CONTACTS
      68
           2127854
                                    . JUMPER ASSEMBLY
                                                                                                                               21
      69
           2181202
                                    . HOUSING-TERMINAL PLUG
      70
          2181203
                                    . SCREW
      71
           2181211
                                                                                                                                3
                                  • TERMINATOR, LINE
• STRAIN RELIEF COAX FOR TWO-HI APPLICATION
      72
           5800736
      73
           5352960
                                                                                                                               AR
                                    LARFI
                                                                                                                               AR
      74
           2181266
                                    LASEL
TERMINAL
     74A
75
           5393130
                                                                                                                               AR
AR
           2178526
                                    GUIDE, CARO
CARD, CONNECTOR
            811804 -
                                                                                                                               ΔR
      77
           5819436
                                                                                                                               AR
                                    TERMINAL QUICK DISCONNECT
                                                                                                                               AR
      78
            430799
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RELEASED MAINZ

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UNPACKING & MACHINE LOCATION

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CABLING TO FILE CONTROL UNIT

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HEAD - DISK CHECK (POWER OFF)

FILE MOTOR & HEAD LOADING CHECK

HEAD UNLOADING CHECK

FOWER - ON MOTOR SEQUENCE CHECK

HEAD ALIGNMENT CHECK

GENERAL CHECKS

HYDRAULIC SUMP RELIEF INSTALLATION (WTC)

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FIELD ENGINEERING INSTALLATION INSTRUCTIONS

P/N 2181069 SHEET 2 OF 8

MACHINE TYPE 2311

RELEASED MAINZ

NOTE: DO THE FOLLOWING STEPS IN THE SEQUENCE GIVEN UNLESS OTHERWISE NOTED.

- A UNPACKING AND MACHINE LOCATION
 - 1. REMOVE PACKING. CHECK MACHINES FOR POSSIBLE SHIPPING DAMAGE.
 - 2. INVENTORY THE PARTS IN THE SHIPPING GROUP.
 - 3. POSITION THE FILES IN THEIR APPROXIMATE FINAL LOCATIONS (REFER TO FIGURE 1).
 - 4. REMOVE FRONT AND REAR COVERS. LEAVE TOP COVERS IN PLACE.
 - 5. REMOVE SHIPPING BRACES, ETC.
- B BASEPLATE GROUNDING CHECK
 - 1. MEASURE RESISTANCE BETWEEN GATE DC TERMINAL #1 AND FRAME GROUND ON FILES WHICH HAVE FEED-THRU FILTER CAPACITORS MOUNTED ON THE GATE ASSEMBLY. MEASURE RESISTANCE BETWEEN GATE DC TERMINAL #7 AND FRAME GROUND ON FILES WHICH DO NOT HAVE FEED-THRU CAPACITORS. IN BOTH CASES THE READING SHOULD BE 2 MEGOHMS OR HIGHER. ANY LOWER READING INDICATES AN ERRONEOUS GROUND BETWEEN BASEPLATE AND MACHINE FRAME, WHICH MUST BE ELIMINATED BEFORE PROCEEDING.

(THE BASEPLATE IS THE LARGE ALUMINUM PLATE ON WHICH THE ACCESS IS MOUNTED. IT IS NORMALLY GROUNDED AT ONE POINT ONLY BY MEANS OF A LEAD CONNECTED TO THE GATE DC TERMINAL #1).

IF NO EXTRA GROUNDS EXIST, CONTINUE.

- 2. REPEAT ITEM BY FOR EACH FILE.
- C CABLING TO FCU (REFER TO FIG. 1)
 - 1. REMOVE ALL AC POWER TO THE "SOURCE" UNIT SUPPLYING POWER TO THE 2311 FILES (2020-2841 ETC.)
 - 2. INSTALL ONE AC CABLE BETWEEN FCU AND FILE MODULE O, PLUGGING ONE END INTO THE SOURCE UNIT AC PLUG PROVIDED, AND PLUGGING THE OTHER END INTO "AC IN" FILE MODULE O.
 - 3. IF ADDITIONAL FILES ARE BEING INSTALLED, CONNECT THE NEXT AC CABLE BETWEEN "AC OUT" MODULE O AND "AC IN" MODULE 1. CONTINUE INSTALLING FILE AC CABLES IN ASCENDING ORDER OF MODULE NUMBERS.

 NOTE: THE HIGH ORDER MODULE WILL NOT HAVE ANY CONNECTION IN THE "AC
 - OUT" RECEPTACLE.
 - 4. INSTALL ONE SEQUENCE/SIGNAL CABLE BETWEEN SOURCE UNIT AND FILE MODULE O, PLUGGING ONE END INTO THE SOURCE UNIT SEQUENCE/SIGNAL PLUG PROVIDED, AND PLUGGING THE OTHER END INTO "SIGNAL IN" FILE MODULE O.
 - 5. IF ADDITIONAL FILES ARE BEING INSTALLED, CONNECT THE REMAINING SEQUENCE/
 SIGNAL CABLES BETWEEN MODULES IN ASCENDING ORDER. A 2311 SIGNAL TERMINATOR
 MUST BE PLUGGED INTO THE "SIGNAL OUT" RECEPTACLE OF THE HIGH CRDER MODULE.
 (TERMINATOR IS SUPPLIED IN THE SHIPPING GROUP OF THE SOURCE UNIT TO WHICH THE
 FILES ARE ATTACHED).

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FIELD ENGINEERING INSTALLATION INSTRUCTIONS

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MACHINE TYPE __2311

RELEASED MAINZ

6. INSTALL ONE DC/DATA CONTROL CABLE BETWEEN SOURCE UNIT AND EACH OF THE FILES. THE DC PLUGS IN SOURCE UNIT ARE LABELLED TO INDICATE THE MODULE TO BE CONNECTED; THE OTHER END (OF EACH CABLE) PLUGS INTO THE DC RECEPTACLE ON THE SEQUENCE PANEL

D - MECHANICAL CHECKS

- I. LEVEL MACHINE
 - . LOOSEN LOCKNUTS ON REAR CASTORS.
 - b. ADJUST ONE OR BOTH REAR CASTORS UNTIL MACHINE IS LEVEL AND RESTING ON ALL FOUR CASTORS. (NOTE: IN LEVELLING, IT MAY BE NECESSARY TO SLIGHTLY ADJUST ONE OF THE FRONT CASTORS IF THE FLOOR IS UNEVEN).
 - C. AFTER LEVELLING MACHINE, LOWER EACH REAR CASTOR ONE FULL TURN. (THIS WILL RAISE THE MACHINE APPROXIMATELY 1/8").
 - d. LOWER THE TWO STABILIZING JACKS (REAR OF MACHINE) UNTIL THEY CONTACT THE FLOOR. LOCK IN PLACE.
 - e. RAISE THE REAR CASTORS UNTIL THEY CLEAR THE FLOOR, THEN LOCK IN PLACE.
- 2. CHECK THAT THE INDEX TRANSDUCER RETRACTS FULLY WHEN THE CUSTOMER COVER IS RAISED. CLOSE CUSTOMER COVER AND REMOVE ENTIRE TOP COVER FROM THE MACHINE.
- 3. CHECK OIL LINES AND FITTINGS FOR LEAKS AND BASE CASTING FOR SIGNS OF OIL.
- 4. WTC MACHINES ONLY: INSTALL CUP P/N 2180771 AND WASHER P/N 2180769 TO HYDRAULIC SUMP. REF. PAGE 8 OF THESE INSTRUCTIONS.
- 5. CHECK TORSION RODS FOR PROPER SEATING AGAINST R/W HEADS: CHECK THAT ARMS ARE SEATED AGAINST ADJUSTING SCREWS AND THAT ARM CLAMPS ARE SNUG.
- 6. CHECK THE R/W HEAD PLUGS FOR LOOSE CONNECTIONS.
- 7. CHECK TRANSDUCERS FOR LOOSE CONNECTORS.
- 8. CHECK TERMINAL BLOCK AT BACK END OF ACTUATOR FOR LOOSE TERMINALS AND SHORTS.
- 9. CHECK MOTOR DRIVE BELT AND PUMP PULLEY FOR SIGNS OF OIL INDICATING A POSSIBLE DEFECTIVE OIL SEAL IN THE PUMP.
- 10. CHECK THAT SLT CARDS AND PADDLE CARDS ARE SECURELY PLUGGED IN THE GATE.
- 11. REPEAT STEPS DI D9 FOR ALL FILES BEING INSTALLED.
- E. POWER CHECK (DISK PACK OFF)
 - 1. a. 60 CYCLE MACHINES SER, NO. 19477 AND LOWER CONNECT JUMPER ON FILE +36 VOLT POWER SUPPLY TB-1 TO MATCH THE AC INPUT VOLTAGE (SEE LOGIC FD111).

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FIELD ENGINEERING INSTALLATION INSTRUCTIONS

TYPE _ 2311

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RELEASED MAINZ

b. 50 CYCLE

MACHINE

- (1) CONNECT TRANSFORMER TAPS AT PSTB-1 TG MATCH THE AC INPUT VOLTAGE (SEE LOGIC FD111).
- (2) CONNECT JUMPER AT TS-2 FOR THE CONFIGURATION OF AC INPUT (i.e. \triangle OR Y) (SEE LOGIC FD110).
- 2. TURN OFF ALL FILE AC DISCONNECT SWITCHES.
- 3. REPEAT STEP ET a. OR b. ON ALL FILES BEING INSTALLED.
- 4. TUPN OFF ALL FILE START/STOP SWITCHES. TURN ON FCU POWER. TURN ON FILE AC DISCONNECT SWITCHES.
- 5. CHECK THE FOLLOWING VOLTAGES AT THE GATE DC TERMINAL STRIP USING GATE DC GROUND TERMINALS 5, 6, AND 7 (JUMPERED) AS A REFERENCE: ADJUST AS NEEDED.

 NOTE: VOLTAGES SUPPLIED BY "SOURCE" UNIT 2020-2841 ETC. MUST BE MEASURED AT SUPPLY BUSS IN "SOURCE" UNIT WHILE ADJUSTING. USE THE "SOURCE" UNIT INSTALLATION INSTRUCTIONS FOR ADJUSTING VOLTAGES SUPPLIED BY THE "SOURCE" UNIT.

VOLTAGE	TERMINAL NO.	TOLERANCE	SOURCE
+36	2	<u>+</u> 8% (33.1 to 38.9)	2311
+ 6	3	±4% (5.75 to 6.25)	"SOURCE" UNIT 2020-2841 ETC.
+ 3	. 4	<u>+4</u> % (2.9 to 3.1)	"SOURCE" UNIT 2020-2941 ETC.
- 3 -36	8	$\pm 4\%$ (2.9 to 3.1)	"SOURCE" UNIT 2020-2941 ETC.
_36	9	±4% (34.6 to 37.4)	"SOURCE" UNIT 2020-2941 ETC.

- 6. REPEAT STEP E5 ON ALL FILES BEING INSTALLED.
- 7. TURN OFF 2311 AC DISCONNECT SWITCHES. TURN OFF ALL FOU POWER.
- F HEAD-DISK CHECK (POWER OFF)
 - 1. INSPECT CE DISK PACK FOR SHIPPING DAMAGE.
 - 2. VACUUM ENTIRE BASE PLATE AND CLEAN INSIDE OF SHROUD; SEE F.E. MAINTENANCE MANUAL.
 - 3. CLEAN RAW HEADS; SEE F.E. MAINTENANCE MANUAL.
 - 4. CHECK ADJUSTMENT OF THE HEAD UNLOAD KNOCKOFF; SEE 2311 F.E. MAINTENANCE MANUAL P/N Y26-5923.
 - 5. BEFORE MOUNTING CE PACK, INSURE THAT THE DISK PACK BRUSHES ARE NOT EXTENDED INTO THE SHROUD AREA SO AS TO INTERFERE WITH THE DISK PACK. THE BRUSHES CAN BE MANUALLY PUSHED FROM WITHIN THE SHROUD AREA. ALSO INSURE THAT THE INDEX TRANSDUCER CLEARS THE PACK AS THE PACK IS LOWERED INTO PLACE.

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FIELD ENGINEERING INSTALLATION INSTRUCTIONS

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MACHINE TYPE 2311

RELEASED MAINZ

6. MOUNT CE PACK.

NOTE: TO ENERGIZE THE ELECTRICAL BRAKE ON EARLY MODELS, TURN ON FCU POWER AND TURN ON THE FILE DISCONNECT SWITCH. ON LATER MODELS THE BRAKE IS MECHANICAL AND IS ACTIVATED BY MECHANICAL LINKAGE WHEN THE TOP COVER IS OPENED.

- 7. WARNING: DO NOT LET HEADS LOAD DURING THIS STEP MANUALLY TRIP THE HEAD LOADING CAM LATCH TO AVOID LOADING HEADS, CAREFULLY MOVE CARRIAGE FORWARD INTO DISK PACK. (REF FIG 4-13; IN THE 2311 MAINTENANCE MANUAL.).
- 8. CHECK CLOSELY FOR INTERFERENCE BETWEEN HEADS, HEAD CABLES, AND DISKS. MOVE THE CARRIAGE ALL THE WAY TO POSITIVE STOP.
- 9. RESTORE THE CARRIAGE TO THE FULLY RETRACTED POSITION.
- 10. CHECK FOR PROPER CLEARANCE OF THE INDEX TRANSDUCER TO THE SLOTTED BOTTOM DISK.
- 11. CLEAN AND REPLACE TOP COVER. OPEN CE COVER (LEFT SIDE OF TOP COVER).
- 12. REPEAT STPS F2 FIO ON ALL FILES BEING INSTALLED.
- G FILE MOTOR AND HEAD LOADING CHECK
 - 1. TURN ON FILE AC DISCONNECT SWITCH ONLY ON THE FILE BEING CHECKED ("SOURCE" UNIT POWER IS ON AND FILE START/STOP SWITCH IS OFF).
 - 2. MOUNT CE DISK PACK AND TURN ON THE FILE START/STOP SWITCH.
 - 3. CHECK THE FOLLOWING ITEMS:
 - . PACK MOTOR STARTS
 - b. BRUSHES START INTO PACK
 - C. AS DISKS COME UP: TO SPEED DETECT PULLS OUT AND CARRIAGE EXTENDS TO HYDRAULIC HOME.
 - d. AFTER BRUSHES WITHDRAW FROM PACK, CARRIAGE GOES FORWARD FAST LOADING THE HEADS, THEN RETURNS TO CYL. 000.
 - WHEN HEADS ARE LOADED USE FLASHLIGHT TO CHECK THAT HEAD CABLES, ETC., ARE CLEAR OF DISKS.

INSTALLATION INSTRUCTIONS

f. CARRIAGE IS DETENTED AT CYLINDER OOO.

g. READY LIGHT IS ON.

h. NO OIL LEAKS PRESENT WITH POWER ON.

RELEASED MAINZ

H - HEAD UNLOADING CHECK

(NOTE: THIS PROCEDURE REQUIRES THE ASSISTANCE OF ANOTHER PERSON.)

CAUTION: KEEP FINGERS OUT OF AREA BETWEEN CARRIAGE AND HYDRAULIC UNIT AND BETWEEN CARRIAGE AND CARRIAGE HOUSING.

- 1. STANDING IN FRONT OF MACHINE, FIRMLY RESTRAIN THE CARRIAGE ASSEMBLY FROM MOVING TOWARD HOME. (THIS: CAN BE DONE BY GRASPING THE TOP RAIL WITH THE LEFT HAND.)
- 2. (NOTE: READ STEP 3 BEFORE EXECUTING STEP 2.) WHILE WATCHING THE HEADS IN THE 2311, POWER DOWN THE "SOURCE" UNIT SUPPLYING POWER TO THE 2311. (2020-POWER DOWN THE CPU. 2841-PLACE IN CE MODE AND PLACE POWER SWITCH ON CE PANEL TO "OFF"). THE HEADS SHOULD UNLOAD IMMEDIATELY.
- 3. IF THE HEADS DO NOT UNLOAD AT ONCE, BEFORE THE DISKS SLOW DOWN APPRECIABLY, RELEASE THE CARRIAGE ALLOWING IT TO RETRACT FULLY. THIS WILL "K"OCK OFF" THE HEAD LATCH, CAUSING THE HEADS TO UNLOAD. DETERMINE AND ELIMINATE THE CAUSE OF THIS FAILURE BEFORE PROCEEDING, THEN POWER BACK UP AND REPEAT STEP 2 ABOVE.
- 4. IF THE HEADS DO UNLOAD, CHECK THAT POWER IS PRESENT ON 2311 AS LONG AS THE CARRIAGE IS RESTRAINED FROM MOVING; HOWEVER, WHEN THE CARRIAGE IS ALLOWED TO RETRACT TO HOME, THE HEADS EXTENDED SWITCH SHOULD TRANSFER PERMITTING THE "SOURCE" TO DROP FILE POWER.
- 5. CLOSE TOP COVERS.
- 6. REPEAT SECTIONS G AND H ABOVE ON ALL FILES BEING INSTALLED.
- 7. WITH ALL FILE MOTORS ON, TURN SYSTEM POWER OFF. ALL MOTORS SHOULD TURN OFF, ALL HEADS SHOULD UNLOAD AND ALL CARRIAGES SHOULD RETRACT. (NOTE: IT IS NORMAL FOR SELECT LOCK LAMPS TO FLASH AS POWER GOES OFF.)
- 1 POWER-ON MOTOR SEQUENCE CHECK

(NOTE: APPLIES TO MULTIPLE FILES ONLY.)

- TURN ON SYSTEM POWER (FILE START/STOP SWITCHES WERE LEFT ON FROM PREVIOUS STEP).
- 2. MODULE O MGTOR SHOULD START IMMEDIATELY. WHEN CARRIAGE REACHES APPROX. 70% OF RATED SPEED THE CARRIAGE SHOULD EXTEND SLOWLY, THEN STOP AT HYDRAULIC HOME.
- 3. WHEN MODULE O CARRIAGE EXTENDS, MODULE 1 MOTOR SHOULD START, ETC. THIS SHOULD CONTINUE IN SEQUENCE (ONE FILE MOTOR STARTING AT A TIME) UNTIL ALL FILE MOTORS ARE ON.

J - HEAD ALIGNMENT CHECK

NOTICE: ALL HEADS MUST BE ALIGNED AT INSTALLATION TO INSURE INTERCHANGABILITY OF DISK PACKS. REFER TO F.E. MAINTENANCE MANUAL FOR PROCEDURE. (NOTE: TO SAVE TIME, DO ITEM "K" BELOW DURING FILE WARMUP PERIOD.)

AFTER COMPLETING HEAD ALIGNMENT ON ONE FILE, MOVE THE C.E. DISK PACK TO THE NEXT FILE TO BE TESTED AND REPEAT THE ABOVE PROCEDURE.

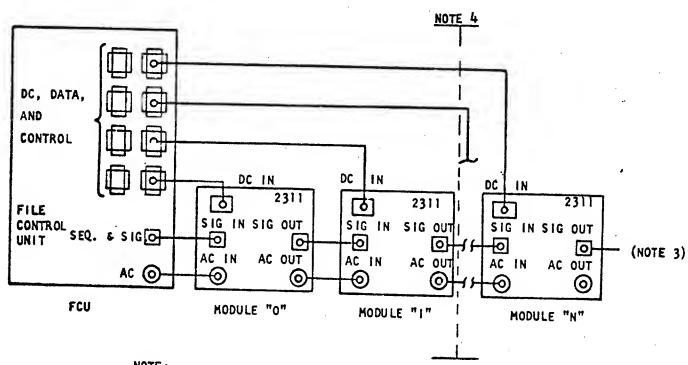
K - GENERAL CHECKS:

RUN DIAGNOSTICS TO CHECK THE OPERATION OF FILES, FCU AND METERS.

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RELEASED MAINZ

FIG. 1 2311 CABLING



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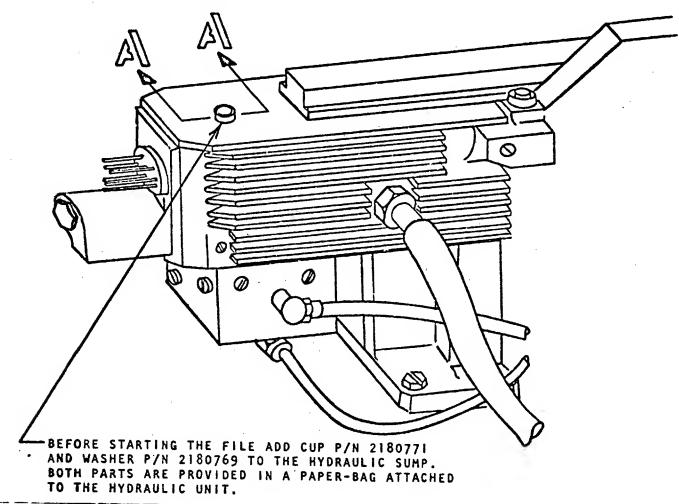
- 1. WHEN LAYING CABLES, SPACE 2311 CABLES AT LEAST 1 FOOT AWAY FROM ANY NON 2311 CABLES WHICH MIGHT INTRODUCE NOISE INTO THE 2311 (EG: UNSHIELDED POWER CABLES)
- 2. 2311 AC AND DC IN RECEPTACLES TAKE REMALE END OF CABLES: THE SIG. IN RECEPTACLE TAKES SIGNAL CABLE PLUG MARKED "IN".
- 3. A 2311 SIGNAL TERMINATOR MUST BE PLUGGED INTO THE SIGNAL OUT RECEPTACLE OF THE LAST (HIGH ORDER) MODULE. REGARDLESS OF THE NUMBER OF FILES ATTACHED.
- 4. THE 2020 SYSTEM PROVIDES 2 DC PLUGS TO ACCOMMODATE A MAXIMUM OF 2-2311 OTHER FILE CONTROL UNITS PROVIDE 8 DC PLUGS TO ACCOMMODATE UP TO 8-2311

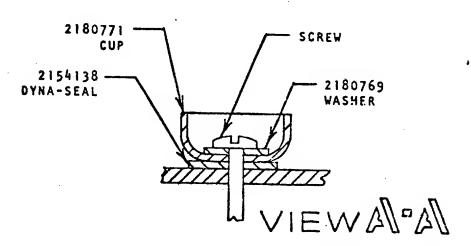
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HYDRAULIC SUMP RELIEF INSTALLATION

RELEASED MAINZ

2181069 - WORLD TRADE CORP. MACHINES ONLY





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